

Autumn 2006

new trail

The University of Alberta Alumni Magazine

Birth of the New

University Spin-Off
Success Stories

Plus...

Recognizing Distinguished Alumni

The Human Metabolome Project

Thailand Gets a Helping Hand

Special Agriculture, Forestry, and
Home Economics Insert Inside

PM40112326

CAMPAIGN
2008

To Build a Bursary • Nursing the Future

UNIVERSITY OF ALBERTA



Golden Bears and Pandas Athletics Schedule 2006-2007

GOLDEN BEARS & PANDAS BASKETBALL

PANDAS	GOLDEN BEARS
NON CONFERENCE GAMES / TOURNAMENTS	
Oct 13 - 15	@ Bishop's
Oct 20 - 22	Pandas Hoopfest
Oct 27 - 29	@ Regina
Dec 27 - 31	@ San Diego
Dec 28 - 30	Golden Bears Invitational
CANADA WEST CONFERENCE GAMES	
Fri Nov 03, 06	6:00 PM Thompson Rivers
Sat Nov 04, 06	6:00 PM Fraser Valley
Nov 10 - 11	6:15 PM @ Saskatchewan
Fri Nov 17, 06	6:15 PM @ Regina
Sat Nov 18, 06	6:00 PM @ Brandon
Fri Nov 24, 06	6:00 PM @ Calgary
Sat Nov 25, 06	6:00 PM @ Calgary
Fri Dec 01, 06	6:00 PM @ Lethbridge
Sat Dec 02, 06	6:00 PM @ Lethbridge
Jan 5 - 6	6:00 PM @ Winnipeg
Fri Jan 12, 07	6:00 PM @ Manitoba
Sat Jan 13, 07	6:00 PM @ Manitoba
Fri Jan 19, 07	6:15 PM @ Simon Fraser
Sat Jan 20, 07	6:00 PM @ Trinity Western
Fri Jan 26, 07	6:00 PM @ Saskatchewan
Sat Jan 27, 07	6:00 PM @ Saskatchewan
Fri Feb 02, 07	6:00 PM @ British Columbia
Sat Feb 03, 07	6:00 PM @ Victoria
Feb 9 - 10	6:30 PM @ Lethbridge
CANADA WEST PLAYOFFS (dates subject to change)	
Feb 16 - 18	CW Division Semi-Finals
Feb 23 - 25	CW Division Finals
Mar 2 - 3	CW Final Four
CIS NATIONAL CHAMPIONSHIP	
Mar 9 - 11	@ St. John's (Memorial)
Mar 16 - 18	@ Halifax

GOLDEN BEARS HOCKEY

NON CONFERENCE GAMES / TOURNAMENTS	
Tue, Sep 12, 06	7:00 PM @ Oakes Rookies
Sep 22 - 23	@ Huskie Invitational
Sep 29 - 30	4PM & 7 PM @ Brick Invitational
CANADA WEST CONFERENCE GAMES	
Oct 6 - 7	7:00 PM @ Regina
Fri Oct 13, 06	7:30 PM @ Calgary
Sat Oct 14, 06	7:30 PM @ Calgary
Oct 20 - 21	7:30 PM @ UBC
Fri Oct 27, 06	7:30 PM @ Manitoba
Sat Oct 28, 06	7:30 PM @ Manitoba
Fri Nov 10, 06	7:30 PM @ Regina
Sat Nov 11, 06	7:30 PM @ Regina
Nov 17 - 18	7:00 PM @ Saskatchewan
Nov 24 - 25	7:30 PM @ UBC
Fri Dec 01, 06	7:00 PM @ Calgary
Sat Dec 02, 06	7:30 PM @ Calgary
Jan 5 - 6	7:00 PM @ Lethbridge
Jan 12 - 13	7:00 PM @ Manitoba
Fri Jan 19, 07	7:30 PM @ Saskatchewan
Sat Jan 20, 07	7:30 PM @ Saskatchewan
Fri Feb 02, 07	7:30 PM @ Lethbridge
Sat Feb 03, 07	7:30 PM @ Lethbridge
Fri Feb 09, 07	7:30 PM @ Calgary
Sat Feb 10, 07	7:00 PM @ UBC
Fri Feb 16, 07	7:30 PM @ UBC
Sat Feb 17, 07	7:30 PM @ UBC
CANADA WEST PLAYOFFS (dates subject to change)	
Feb 23 - 25	CW Quarter Finals
Mar 2 - 4	CW Semi-Finals
Mar 9 - 11	CW Finals
CIS NATIONAL CHAMPIONSHIP	
Mar 22 - 25	@ Moncton

PANDAS HOCKEY

NON CONFERENCE GAMES / TOURNAMENTS	
Sat Sep 16, 06	1:00 PM Edmonton Chimos
Sun Sep 17, 06	1:00 PM Macdonald
Fri Sep 22, 06	TBA vs SAIT @ Camrose
Sep 29 - Oct 1	@ Marion Hillard Tournament (Toronto)
Dec 21 - 23	U of A Christmas Tournament - Clare Drake Arena
CANADA WEST CONFERENCE GAMES	
Fri Oct 06, 06	7:00 PM Regina
Sat Oct 07, 06	7:00 PM Regina
Oct 13 - 14	7:00 PM vs UBC @ Port Alberni & Campbell River
Fri Oct 20, 06	7:00 PM Lethbridge
Sat Oct 21, 06	7:00 PM Lethbridge
Nov 3 - 4	7:00 PM @ Manitoba
Fri Nov 17, 06	7:00 PM @ Saskatchewan
Sat Nov 18, 06	7:00 PM @ UBC
Fri Nov 24, 06	7:00 PM @ UBC
Dec 1 - 2	7:00 PM @ Lethbridge
Fri Jan 05, 07	7:00 PM @ Manitoba
Sat Jan 06, 07	7:00 PM @ Manitoba
Jan 19 - 20	7:00 PM @ Saskatchewan
Fri Jan 26, 07	7:00 PM @ Lethbridge
Sat Jan 27, 07	7:00 PM @ Lethbridge
Feb 2 - 3	7:00 PM @ Regina
Feb 9 - 10	7:00 PM vs UBC @ Prince George
CANADA WEST PLAYOFFS (dates subject to change)	
Feb 23 - 25	CW Semi-Finals
Mar 8 - 10	CW Finals
CIS NATIONAL CHAMPIONSHIP	
Mar 15 - 18	@ Ottawa

GOLDEN BEARS FOOTBALL

CANADA WEST CONFERENCE GAMES	
Sat Sep 02, 06	1:30 PM @ Saskatchewan
Sat Sep 09, 06	12:00 PM @ Calgary
Sat Sep 16, 06	1:00 PM UBC
Sat Sep 23, 06	2:00 PM @ Manitoba
Sun Oct 01, 06	7:00 PM @ Simon Fraser
Sat Oct 14, 06	7:00 PM @ Calgary
Sat Oct 21, 06	7:00 PM @ Saskatchewan
Sat Oct 28, 06	7:00 PM @ Regina
CANADA WEST PLAYOFFS (dates subject to change)	
Sat Nov 04, 06	CW Semi Finals
Sat Nov 11, 06	CW Final
Sat Nov 18, 06	CIS Semi-Final - CW @ OUA
POTASH CORP VANIER CUP	
Sat Nov 25, 06	@ Saskatchewan

• Football / Soccer played at Foote Field - 114 St. & 67 Ave
 • Basketball / Volleyball played at Main Gym - 87 Ave & 114 St.
 • Golden Bears and Pandas Hockey played at Clare Drake Arena - 115 St. & 88 Ave

HOME GAMES



GOLDEN BEARS & PANDAS SOCCER

PANDAS	GOLDEN BEARS
NON CONFERENCE GAMES / TOURNAMENTS	
Aug 26 - 27	@ Lethbridge
CANADA WEST CONFERENCE GAMES	
Fri Sep 08, 06	2:00 PM 4:15 PM Lethbridge
Sun Sep 10, 06	12:00 PM 2:15 PM @ Calgary
Sep 16 - 17	12:00 PM 2:00 PM @ Saskatchewan
Sat Sep 23, 06	2:00 PM 2:15 PM @ Regina / Fraser Valley
Sun Sep 24, 06	2:00 PM 2:15 PM @ Manitoba / TWU
Sat Sep 30, 06	12:00 PM 2:00 PM vs UBC / @ UBC
Sun Oct 01, 06	12:00 PM 2:15 PM vs Victoria / @ Victoria
Sat Oct 14, 06	12:00 PM 2:15 PM @ Calgary
Sun Oct 15, 06	12:00 PM 2:00 PM @ Lethbridge
Sat Oct 21, 06	12:00 PM 2:15 PM @ Regina / UBC
Sun Oct 22, 06	12:00 PM 2:15 PM @ Manitoba / Victoria
Fri Oct 27, 06	6:00 PM 8:00 PM @ Fraser Valley
Sat Oct 28, 06	5:00 PM 7:15 PM @ Trinity Western
CANADA WEST PLAYOFFS (dates subject to change)	
Nov 2 - 5	CW Finals @ Regina
Nov 4 - 5	CW Finals @ TBA
CIS NATIONAL CHAMPIONSHIP	
Nov 9 - 12	@ Victoria
Nov 9 - 12	@ Edmonton

GOLDEN BEARS & PANDAS VOLLEYBALL

PANDAS	GOLDEN BEARS
NON CONFERENCE GAMES / TOURNAMENTS	
Sep 22 - 23	@ TWU
Oct 12 - 14	@ Laval
Oct 13 - 14	@ Laval
Oct 19 - 21	@ Laval
Dec 28 - Jan 2	@ CI South Invitational
CANADA WEST CONFERENCE GAMES	
Fri Oct 27, 06	8:00 PM 6:30 PM Brandon
Sat Oct 28, 06	6:30 PM 8:00 PM Brandon
Nov 3 - 4	6:00 / 8:00 @ Regina
Fri Nov 10, 06	8:00 PM 6:30 PM Winnipeg
Sat Nov 11, 06	8:00 PM 6:30 PM Winnipeg
Nov 23 - 24	6:15 PM 8:00 PM @ Saskatchewan
Sat Dec 02, 06	2:00 PM 6:00 PM @ Manitoba
Sun Dec 03, 06	2:00 PM 7:00 PM @ Manitoba
Jan 5 - 6	7:00 PM @ Manitoba
Fri Jan 19, 07	8:00 PM 6:30 PM Simon Fraser / Calgary
Sat Jan 20, 07	6:30 PM 8:00 PM @ UBC
Fri Jan 26, 07	7:00 PM @ UBC / vs UBC
Sat Jan 27, 07	2:00 PM @ UBC
Sun Jan 28, 07	2:00 PM @ UBC
Feb 2 - 3	6:00 PM 7:45 PM @ Thompson Rivers
Fri Feb 09, 07	6:30 PM 8:00 PM @ Trinity Western
Sat Feb 10, 07	6:30 PM 8:00 PM @ Trinity Western
CANADA WEST PLAYOFFS (dates subject to change)	
Feb 16 - 18	CW Semi-Finals
Feb 23 - 25	CW Finals
CIS NATIONAL CHAMPIONSHIP	
Mar 1 - 3	@ Calgary
Mar 2 - 4	@ McMaster (Hamilton)

VARSITY SPORTS

CROSS COUNTRY	
Sat Nov 11, 06	CIS National Championship @ Laval (Quebec City)
PANDAS FIELD HOCKEY	
TBA	Pandas Invitational Tournament
Sep 22 - 24	CW #1 @ Edmonton
Sep 29 - Oct 1	CW #2 @ Calgary
Oct 13 - 15	CW #3 @ Vancouver
Oct 20 - 22	CW Championship @ TBA
Nov 2 - 5	CIS Championship @ UBC
PANDAS RUGBY	
Oct 20 - 22	CW Finals @ Lethbridge
Nov 2 - 5	CIS National Championship @ Western (London)
SWIMMING	
Jan 19 - 21	CW Finals @ Calgary
Mar 2 - 4	CIS National Championship @ Dalhousie (Halifax)
TRACK AND FIELD	
Sun Nov 26, 06	Last Chance Meet @ Edmonton
Jan 19 - 21	Golden Bear Open @ Edmonton
Feb 23 - 24	CW Finals @ Winnipeg
Mar 8 - 10	CIS National Championship @ McGill (Montreal)
WRESTLING	
Feb 16 - 17	CW Finals @ Saskatoon
Mar 2 - 3	CIS National Championship @ Saskatoon

SEASON TICKETS

	ADULTS	STUDENTS
Bears Hockey	\$95*	\$50*
Pandas Hockey	\$70*	\$35*
Basketball	\$70*	\$35*
Volleyball	\$70*	\$35*
Soccer	\$15	\$8
Football	\$25	\$12

* - playoff tickets are included (does not include national championships or exhibition games)

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www.bears.ualberta.ca

www.pandas.ualberta.ca

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Illustration by Bo-Kim Louie

Freelance design in this issue by Groundwater Communications

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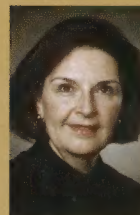
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BASECAMP



It's always amazed me that not a year goes by without a great deal of innovative research coming out of the University, research that changes the way Canada and—indeed, the world—

perceives such seemingly simple things as eating, playing, driving and healing.

Many of those innovative research breakthroughs find their way into the hands of consumers through being spun off into companies that market a product or provide a service derived from University research. Some of the research now underway may later be parlayed into a profitable company and the potential for applied benefits is truly breathtaking in scope.

Take, for instance, the research being done by David Wishart and his team on an initiative called the Human Metabolome Project (featured on pg. 28). This entirely Alberta-based research—which previously resulted in one spin-off company created to facilitate the complex procedure of isolating what Wishart was looking for—has the potential to radically alter the time and money it takes for a doctor to diagnose just about any disease or condition by providing a method to identify its biochemical fingerprints.

As well as recognizing the work of the groundbreaking researchers at the U of A, this issue also features our annual Recognition Awards for outstanding alumni whose contributions to the community go above and beyond the call of duty. All of these alumni epitomize the spirit of compassionate giving that is also exemplified in the forward thinking of Neil and Laura Madsen (pg. 24) who have taken steps to create a bursary that will carry their name forward at the U of A for years to come.

President Indira Samarasekera also continues a University tradition by exemplifying our motto of *Quaecumque vera* ("whatsoever things are true") when she joined other universities in Canada in opting out of participating in *Maclean's* magazine's annual guide to Canadian universities until the publication implements a more accurate and rigorous way of evaluating and ranking the schools nationwide.

Also included in this issue is the annual insert from the Faculty of Agriculture, Forestry, and Home Economics, as well as many more stories that I'm sure you'll enjoy reading as much as we enjoyed discovering.

Susan Peirce, '70 BA
Executive Director,
Alumni Association

new trail

A U T U M N 2 0 0 6

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LETTERS TO THE EDITOR

Rona Riled

I have just received the *New Trail* [Summer '06] that has a feature article on Rona Ambrose. As a supporter of David Suzuki and the Kyoto Accord I am in total disagreement with the disregard our new Minister of the Environment has for the future of our planet. Maybe coming from an oil industry family and being a native of an oil rich province explains her distorted vision for the future environment of the world. Thank you for not putting her picture on the front page.

D. Aikenhead, '50 BSc
Milton, ON

(Editor's Note: This story actually appeared in "Work of Arts," published by the Faculty of Arts and included in *New Trail* as an insert. [We recently began including faculty inserts in *New Trail*.] We received many calls—and not a few letters—regarding this particular story and other contents of "Work of Arts." Unless the content of a particular insert is libellous, or damages the reputation of the University in some other way, it is printed as provided.)

Asian Accolade

We received *New Trail* [Summer '06] and Dr. [Hiroshi] Kurimoto was delighted to read the wonderful article written on his father. He thanks you very much for the time and effort your team put into making this special edition and hopes that the students, staff, and alumni of the University of Alberta will have great pleasure reading Yuichi's remarkable story.

Nathalie Kennedy-Payen
Nagoya, Japan

Small World

The feature article [Summer '06] on Yuichi Kurimoto brought back fond memories of how four generations of my family

have had a connection to him and his family. When Yuichi enrolled at the U of A in 1926, my grandfather, Cecil E. Race, was registrar at the time and helped him settle into university studies in a strange land, a kindness for which Yuichi and his family expressed an ongoing appreciation.

My father, Winfield Race, was also a fellow dorm mate and friend of Yuichi's at St. Stephen's College. Later, when Yuichi's widow [Shizu] and son [Hiroshi] visited Edmonton in the early '80s, my father met with them, and when the Kurimoto Japanese Garden at the Devonian Botanic Garden was dedicated in 1987, my wife and I had the pleasure of dining with Shizu and Hiroshi.

The fourth generation connection occurred when our son David was visiting Japan on a student exchange and Shizu and Hiroshi insisted that he meet them for lunch.

Thank you for your comprehensive article about this outstanding gentleman and philanthropist, and for the opportunity the article afforded me to revisit some cherished memories.

Cecil L. Race '63 BA, '79 MEd
Leduc, AB

Fascinating Reading

I thoroughly enjoyed your Kurimoto article [Summer '06]. In the '80s and early '90s I had some involvement with the family and it was fascinating to read some of the deep background on this amazing family. Ellen Schoeck, '72 BA, '77 MA
Former Director, University Secretariat
Edmonton, AB

(Editor's Note: Ellen also has a book about the history of the U of A coming out this fall called *I Was There: A Century of Alumni Stories about the University of Alberta, 1906-2006*.)

Registrar'd Letter

In the summer ['06] edition of *New Trail*, which I have read cover to cover, and enjoyed, there is an error in the cover story on Yuichi Kurimoto. You state that [registrar] Dr. Sheldon had just passed away in 1926. Dr. Sheldon was certainly still very much alive during my years from 1936 to 1940.

Gordon McLure, '40 BSc(Eng)
Saskatoon, SK

(Editor's note: Yes, we got it wrong. It was actually Cecil E. Race [registrar 1910-1927] who had taken ill and would soon pass away. Ernest Sheldon was acting registrar from 1927 to 1928 before Albert Ottewell took over the position from 1928 to 1946.)

Not Gone Yet

I was saddened to read in the story "Old Bricks For New" [Winter 05/06] that the old South Lab is to be torn down. I'm not sure when it was established there, but there was no mention in your article that in the '50s the entire second floor of South Lab also housed the School of Home Economics. It was comprised of a sewing lab, a cooking lab, a meal preparation area, a dining room, and a demonstration lab (where we learned to cook, talk, and entertain, a'la the cooking shows on TV). Miss Patrick, Miss McIntyre, Miss Duggan, and Miss Erdmann were our mentors and teachers, who taught

us well and sent us out to become dietitians, home economists and teachers. The South Lab was not glamorous, but served us well.

Evelyn O'Sullivan (Clark),
'56 BSc(HEC)
Prince George, BC

(Editor's note: South Lab is not being torn down. It is being renovated to serve as the new home of, among others, the Graduate Students' Association.)

Adventuresome Reading

A belated, heartfelt thanks for the great article on Batstar Adventures [Spring '06]. It was a pleasure to read, and the layout looked fantastic. We received

wonderful feedback from many friends, family, and colleagues. It is a compliment to your publication and its relevance to the alumni that so many people read it so thoroughly.

Rhonda Johnson, '86 BA, '90 MBA, '90 LLB
Batstar Adventure Tours
Port Alberni, BC

Alumni Gratitude

Thank you for taking care of my request to have my name once more included in alumni mailings. The current issue [Summer '06] arrived promptly, and I am delighted to be receiving and reading it again. It's a fine example of magazine journalism.

JoAnna Dutka, '57 BA, '61 MA
Canmore, AB



Ion Source for the TRIUMF Cyclotron

In the last issue of *New Trail* we ran a picture of an unidentified machine on the Tuck Shop page (52) and offered a prize for the first correct answer as to what it was and another prize for the most imaginative response as to what it could be. We got many responses and it was a tough decision to make as to which answer was most inventive. Below are the two prize winners (a deluxe DeBco wine kit). Thanks to everyone who participated and to read the other answers go to www.ualberta.ca/alumni and click on *New Trail*.

I can identify your 'Thingamajig.' It is a prototype Ion Source for the TRIUMF Cyclotron, a cooperative particle physics research facility located in Vancouver, with the University of Alberta as a founding partner. (TRIUMF is an acronym for TRI [3] U-niversity M-eson F-acility). The odd thing about the name is that it was a partnership of four, not three universities (UBC, U Victoria, Simon Fraser U, and U of Alberta) but they liked the acronym so much they retained it nevertheless.

The Ion Source was developed by Professor Gerald Roy of the Physics Department, and his colleagues in the mid '70s. It has its unusual features because it must be maintained at a high voltage difference with respect to the room in which it is located. The Ion Source ionizes (adds electrons) to a hydrogen gas and focuses the ions so that they may be accelerated to very high energies in the TRIUMF Cyclotron.

The Ion Beam which it produces leaves the source through the pipe, seen at the left of the photo. The red devices beneath are insulators to maintain the voltage difference. The clear (insulating) Plexiglas rods, seen to the right, are for making adjustments to the controls across the voltage difference. The smooth, round shapes, top and bottom, are to eliminate sharp corners, which tend to initiate high voltage spark-overs.

The main TRIUMF Cyclotron, approximately 50-60 feet in diameter, was constructed on the south edge of the UBC campus, in a large hall that looked like an airport hangar. The Ion Source, of which you printed a picture, was one small piece of the machine developed at the U of A then dismantled and moved to Vancouver. It would have measured approximately 6 feet by 6 feet by 6 feet, and was about 4-6 feet off the floor. The beam which it produced had to travel approximately

40-50 metres before even entering the main machine.

I was a physics PhD student at the U of A doing particle physics research at TRIUMF, once the Facility was completed in the mid '70s. I currently work for Atomic Energy of Canada Limited at the Whiteshell Laboratories in Pinawa, Manitoba.

Robert H. McCamis, '73 MSc,
'78 PhD

My first choice would be a high-voltage generator used to ionize some unidentified gas; but I actually know that the 'Thingamajig' is not from the '70s but is presently being used to separate out rare elements that are present in Edmonton's atmosphere that enable the Oilers to meet their potential for home games. These elements will be released at the bench next season during away games.

Andy Spencer
Professor Emeritus, Biological Sciences
Parksville, BC

Thanks Again

Thank you for the personal essay written by Betsy Sargent, titled "Maintenance" [Summer '06, Faculty of Arts Insert]. No wonder it has been awarded a literary prize. She has captured the deeply loving and concerned relationship between elderly parents and their adult children with wit and delicacy. As a reader of *New Yorker* short fiction and particularly the work of Alice Munro, nothing has affected me more deeply than this lovely essay.

Ruth Cathcart (Chennells),
'54 BA
Warton, ON

Looking Forward

I look forward to receiving the *New Trail*. It's a wonderful way to keep in touch with the U of A and its alumni.

Sophia Wong, '92 BA, '96 MA
Brooklyn, NY

Name in Vain

After all the media coverage, demonstrations and violence following the cartoon depictions of the Prophet Mohammed, one would think that people would be more careful in their references to deities or depictions thereof. However, in reading *New Trail* [Summer '06, Faculty of Arts Insert], I don't think much thought was given to the matter. I was disappointed to see that the name of Jesus was not held in reverence in the piece by Natalie Helberg. Why call out His name? Jesus is the Lord and Saviour of millions of Christians, not someone whose name is to be used as an expletive every time some small thing isn't quite right. I wish people were more respectful and considerate.

Sylvia VanHaitisma,
'63 BSc(Pharm)
Edmonton, AB

Blah Bay

While I am pleased that the U of A plans to open a downtown campus in the wonderful and historic Bay building, I am dismayed at the proposed design as shown in *New Trail* (Summer '06). The artist depicts a building that looks like a grim Stalinist fortress, with all visual access between street and interior prevented with massive concrete faces. Surely the University can do better than that and renovate the building so that it offers a friendly encounter for people between the city streets and the interior. Jane Jacobs' 30-year old message about "good" cities having lots of eyes on the street seems to have passed the architects by in this proposal, thereby losing the University a wonderful opportunity for town-gown mixing.

Marilyn Bowman, '61 BA
Burnaby, BC

Corrections:

Due to a miscommunication, the harpoon (donated to the Anthropology Department by Dr. Wilson) pictured on page 8 (Summer '06) was incorrectly identified as a "projectile point."

In our cover story (Summer '06) we incorrectly referred to the Devonian Botanic Garden as the Devonian "Botanical" Garden.

In Class Notes (Summer '06) we listed the fact that engineering alumnus Dick Walters was elected councillor for the APEGGA; however, we listed the graduation information of his son, Dick Walters, '93 BSc(Eng), '02 MSc. The Dick Walters elected to APEGGA received his BSc in Engineering in 1964 and an MSc in 1966.

We would like to hear your comments about the magazine. Send us your letters via postal mail or e-mail to the address on the previous page. Letters may be edited for length or clarity.

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11 Universities Opt Out of Maclean's Survey

"We regret to inform you that our universities will not be participating in the 2006 *Maclean's* questionnaire."

So begins a letter signed by 11 university presidents across Canada and addressed to Tony Keller, managing editor for *Maclean's* magazine's annual guide to Canadian universities. The signatories to the letter include U of A president Indira Samarasekera, as well as the presidents of the Universities of Calgary and Lethbridge, effectively taking the province of Alberta out of any participation in the *Maclean's* ranking system.

Other provinces that will either have no university representation or have less than full compliance with the survey include British Columbia (UBC and Simon Fraser), Nova Scotia (Dalhousie), Ontario (U of T, McMaster, University of Ottawa), as well as Manitoba (the University of Manitoba) and Quebec (Université de Montreal).

At issue is the way *Maclean's* deals with the information provided to the magazine by the various universities or collects by itself. The letter states that there's an "apples

and oranges" manner in which the magazine pulls different kinds of data out of context to make their arbitrary evaluations.

"It is inappropriate to aggregate information across a range of programs at a large and multi-dimensional research university into a single ranking number," states the letter. It cites the example of a hospital being ranked # 1 in obstetrics and # 10 in cancer care being ranked # 5 overall, which "for the patient seeking care in one of these areas... would be useless at best and misleading at worst."

Another concern was the reputation category that *Maclean's* weighs with one of its highest percentages (16 percent) and yet is compiled based on a survey returned by only 12 percent of the various people polled. A further concern was the 13 percent student body ranking and its sub-category of average entering grade where *Maclean's* assumes that an 80 percent grade translates into an 'A' across the country but, in fact, 86 percent is considered the baseline for an 'A' in B.C. while the CEGEP completion grades in Quebec are not in percentage terms, and have to be artificially translated.

"In short," says the letter, "the ranking methodology used by *Maclean's* is oversimplified and arbitrary."

"Each year," says Samarasekera, "*Maclean's* asks our universities to provide customized data for its use in generating its rankings. Because we object to the way this data is compiled once we submit it, we can no longer justify the use of our institutional resources to support *Maclean's* development of its rankings."

The fact is, says Samarasekera, "we felt that if they were not using the data in a way that we considered rigorous, given that we are academic institutions that are committed to accuracy, transparency and quality... we really couldn't justify public institutions spending taxpayer dollars to support the exercise."

(To view the letter in its entirety click on U of A Notices at www.ualberta.ca)



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The Dawn of Orlando

An innovative electronic textbase on the history of women's writing is launched, changing the face of humanities research

The story of how *Orlando*—the recently released electronic history of women writers that was created primarily at the University of Alberta—came to be starts with an ending. It begins with an index that was literally too big to fit in a book.

In 1990, when Patricia Clements, '64 BA, U of A professor of English, and her co-editors were almost ready to get *The Feminist Companion to Literature in English* (Yale University Press) to print, they were told that the index they'd prepared—which included the name and some abbreviated biographical information on each author in the book—would fill 100 pages. The publisher said there was no way it could fit in the book. "We couldn't print the index," says Clements, "as the binding would collapse." She and her colleagues agreed to strip the index down to a basic alphabetical list but were left with a collection of biographical data and historical information on the writers—information not easy to find anywhere else—and nowhere to put it.

To know what happened next, you have to know a little bit about Patricia Clements, who initiated the Orlando Project and has served as the project director and a project editor since the beginning, and the two women who joined her as project editors—Isobel Grundy, professor emerita of English at the U of A, an expert in 18th-century literature, and Susan Brown, '91 PhD, associate professor of English at the University of Guelph, a specialist on writers from the Victorian period. All highly regarded scholars with many academic publications to their credit, they have often fought to get female writers the attention they deserve. They were not to be easily dissuaded by the limits of print publication.

In fact, those limits encouraged them to look to a different way to present their information. They decided to tap into the potential of digital media, which at the time was a nascent force in communication.

And so the online resource *Orlando: Women's Writing in the British Isles from the Beginnings to the Present* was

born, its name a nod to Virginia Woolf's 1928 novel *Orlando, A Biography*, which explores the changing conditions for women writing in England.

In 1994, Clements began to build a team of literary scholars and computing scientists to create this experiment in humanities computing. Over 100 people have worked on the Orlando Project over the past decade, with advances in technology making collaboration both possible and necessary.

As the possibilities of technology grew, so did the scope of the Project. *Orlando* now is the equivalent of 55 large books, five million words of information about the history of women's writing and the contexts behind it. "Going electronic has enabled us to produce a far more extensive resource than we could have done in print," the authors note in an online introduction.

In its scope and interactive capabilities, *Orlando* breaks new ground in humanities computing. The searchable textbase has thousands of linked and dynamic portions of text, information about more than 1,000 writers and their lives and times. (Updates to the textbase every six months will increase this number.) A user can wander through and discover information and connections about writers or take advantage of *Orlando's* ability to respond to precise, complex questions. "We decided we would make the textbase full of all sorts of particular and highly detailed information," says

In addition to funding from the Social Sciences and Humanities Research Council, the Orlando Project received support from the Canada Foundation for Innovation and from the University of Alberta, which has been "an outstanding environment in which to do this work," says Patricia Clements. "We're deeply grateful to the Department of English, the Faculty of Arts, and successive vice-presidents (research), who have given outstanding support to our research."

TEC Edmonton, the University's agent for technology transfer assistance to researchers, helped arrange a licensing agreement with Cambridge University Press.

Cambridge University Press offers this resource to subscribers and to public and academic libraries and K-12 schools (subscription rates vary). In addition, three companion volumes will be printed by Cambridge University Press and will be available in both print and electronic format, interlinked with the Orlando textbase contents.



Clements, "for a period, a co-asker tool."

For example, interested in the history of girls' writing, you can ask the textbase for information on how girls were educated compared to boys. "Orlando: The History of Education and you will find whose lives or writings for girls'—and for

Orlando can be used to build the text is built in plain Language. It is a resource for questions literature education, personnel work the data structure scholarship and many other things new technology we do research and social science

"Dynamic" Andrea Haser years as a residents who have "It's dynamic and the breadth of every



left to right, Patricia Clements, Isobel Grundy, Susan Brown

Emily Bell Photography

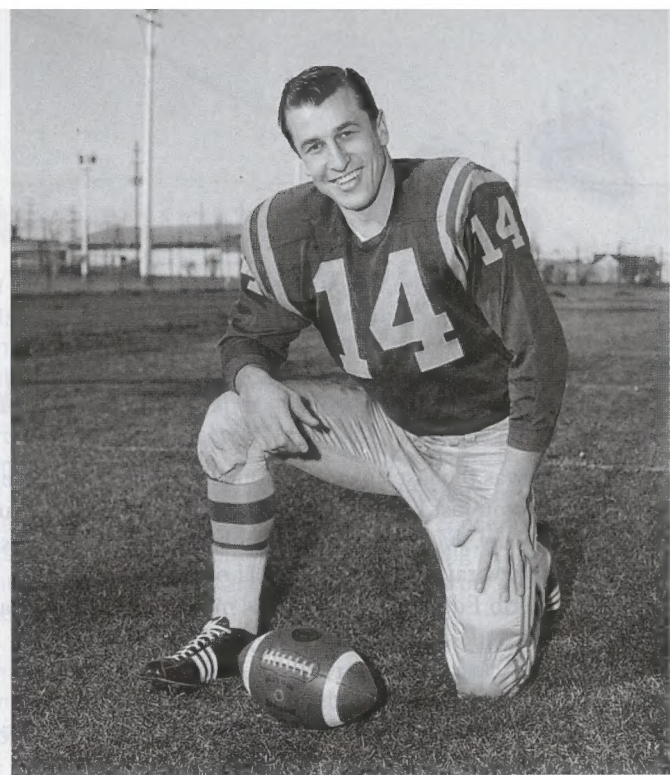
Clements, “for people who wanted to know about a writer, a period, a context legally—any number of questions you can ask the textbase when you’ve learned how to use the asking tool.”

For example, if you are reading *Mill on the Floss* and are interested in the difference in the way the boy Tom is educated compared to his sister, Maggie, you might wonder how girls were educated in George Eliot’s time—just ask *Orlando*. Choose TAG SEARCH in the ‘Lives’ category, pick EDUCATION as a search term, limit to the author’s lifetime and you will get paragraphs about the education of writers whose lives overlapped with Eliot’s. You can also search in writings for specific themes or topics—try ‘education of girls’—and find all kinds of information.

Orlando can unearth answers to such questions because the text is built using Standard Generalized Markup Language. It is encoded with tags based on the kinds of questions literary scholars ask about a writer’s genre, time, education, political activity, and other topics. The technical personnel worked closely with the literary team to develop the data structure. By blending the strengths of literary scholarship and humanities computing, *Orlando* is, among many other things, “an example of the way in which the new technologies are going to completely change the way we do research and present information in the humanities and social sciences,” Clements says.

“Dynamic” is the best way to describe *Orlando*, says **Andrea Hasenbank**, ’04 BA, who joined the Project for two years as a research assistant (one of dozens of graduate students who have contributed to the Project over the years). “It’s dynamic both in terms of the way the users can use it and the breadth it encompasses, the excitement. It’s on the edge of everything.”

—Shelagh Kubish, ’85 BA



Courtesy of Edmonton Eskimos

Saluting Excellence

Skar Kruger, ’56 BA, ’59 LLB, excelled at several sports during his high school and university days and played for 12 years with the Edmonton Eskimos football team, including on three Grey Cup-winning teams (1954, ’55, ’56). While he was with the Eks he also carried a full academic load at the U of A leading to his law degree. In recognition of his accomplishments on the football field he was honoured at Edmonton’s 55th annual salute to excellence awards and admitted to the city’s Sports Hall of Fame.

Kruger was joined at the June 13 ceremony by several other alumni, faculty, and supporters of the U of A. Recipients of the awards are inducted into one of three halls of fame—sports; arts and culture; or community service. Many of the recipients were affiliated with the U of A, evidence of the close connection between the province’s vibrant city and its university.

Among those honoured with community service awards were former U of A

chancellor, senate chair, and board of governors chair **Sandy Mactaggart**, ’90 LLD (Honorary), and his wife, **Cécile Mactaggart**, ’06 LLD (Honorary); and **Stanley A. Milner**, ’51 BSc, ’94 LLD (Honorary).

Receiving arts and culture awards were professor emeritus of drama **Gordon Peacock**, ’49 Dip(Ed), ’50 BEd, ’90 LLD (Honorary); professor emeritus of music Fordyce “Duke” Pier; professor emerita of art and design **Lyndal Osborne**, **Tom Radford**, ’66 BA, and **Denise Roy**, ’76 BA(RecAdmin), ’01 MEd.

Joining Kruger in receiving sports awards were alumni **Shauna C. Miller**, ’74 BEd, ’78 LLB, and **Kem Tamke**, ’72 BCom, ’76 LLB.

Salute to Excellence coordinator **Mavis Snider**, ’86 BA(RecAdmin), said inductees are nominated by a member of the public who provides five letters of recommendation supporting the nominee. “They’re looking for someone who has made a difference and whose life has exemplified striving for excellence,” Snider said.



bear country

Stamp of Approval

When was the last time you thought so highly of something you just had to have a stamp made in its honour? Never, you say. Well, not so the Faculty of Pharmacy class of 1955. The brainchild of former U of A student union president Bob Edgar, the stamp was made to commemorate the Faculty and, says Lynn Holrody, “a very close-knit group of 45 classmates that have kept in touch over the years.” Not only have they kept in touch, they also used their 50th class reunion as a springboard to raise funds for a pharmacy student bursary—their goal was to raise

\$12,500, but in three months they raised over \$18,000. When asked how the class of '55 compares to more recent classes, former Alberta minister of tourism Bob Dowling said: “I’m certain we did many things that present-day students do, and probably not as well—except, of course, the partying.”

(To find out how to have your own personalized stamp made go to www.canadapost.ca and click on “create your own stamp.”)



Rock of Ages

The University of Alberta recently welcomed a very, very old rock star into its midst. No, it's not Keith Richards. But it is, perhaps, the most important rock on the face of the Earth.

The Tagish Lake meteorite is the only one of its kind known to exist on Earth, and may contain insights into the beginnings of our solar system, says Earth and Atmospheric Sciences professor Christopher Herd. Because the space-born rock fell on the frozen surface of a northern B.C. lake in the middle of January and was collected without being touched by human hands, it represents the most pristine sample of minerals from outer space.

“No other meteorite’s ever been collected in this manner and I suppose that arguably makes it the most important rock that’s ever been found anywhere on the Earth,” says Herd. “It can tell us new information about the birth and evolution of our solar system, and the very fact that it’s been kept frozen, essentially pristine, uncontaminated by human hands, gives us an unprecedented



ed opportunity to explore new scientific avenues that were heretofore impossible. We can do things with this meteorite that nobody’s ever done before.

“We can look for minerals in there that are not usually preserved under normal circumstances,” continues Herd. “It even provides us the opportunity to look for extraterrestrial ices. I mean, who knows whether they’re there, but we can look because of the way this thing’s been collected.”

The other thing that makes this meteorite so special is its composition.

Christopher Herd and the Tagish Lake meteorite now in U of A hands.

It’s an extremely rare type of formation that has preserved the goings-on of more than 4.57 billion years ago. Of all the meteorites that fall to Earth, only two or three per cent are of the same category as the Tagish Lake stone.

“The meteorite is a carbonaceous chondrite, which is quite rare,” says Herd. “These meteorites represent the left-over material from the formation of the solar system. This is in the broader context for the theories that we have for the formation of the solar system, which is that the planets formed from a rotating disk of dust and gas around the early sun. So, this material is left over from that.”

The meteorite came to the U of A through a partnership between the University, Canadian Heritage, the Royal Ontario Museum, Natural Resources Canada and the Canadian Space Agency.

For Herd, this is the something he’s been waiting a long time for.

“Shortly after I started here three years ago, I thought this would be a great meteorite to have because of its scientific value. It also fell in Canadian territory. It’s a Canadian meteorite and it really needed to be in a Canadian institution in order to maximize the science and to demonstrate that we could do great science on this.”

—Ileiren Byles

Happy Anniversary

We often hear about Henry Marshall Tory's original vision for the University of Alberta. Tory, '28 LLD (Honorary), the U of A's first president, worked especially hard with Catholic Archbishop John Joseph O'Leary on one aspect of that vision: attracting a constellation of denominational colleges to stimulate the intellectual achievements of a secular university. One of the first such institutions was St. Joseph's College, which is celebrating its 80th anniversary.

This year has been particularly bounteous for the College as it welcomed a \$750,000 donation from the Kule family of Edmonton. The donation was pooled with money from other major donors to establish the Peter and Doris Kule Chair in Catholic Religious Education, named in honour of donors Peter Kule and Doris Kule, both '05 LLD (Honorary). Two more chairs are slated to follow—one in Business Ethics and another in Health Care Ethics. The College is also teaming up with the Faculty of Arts to launch a liberal arts cohort program called "Academia" and will see its first women's residence, Kateri House, open in HUB Mall this fall.

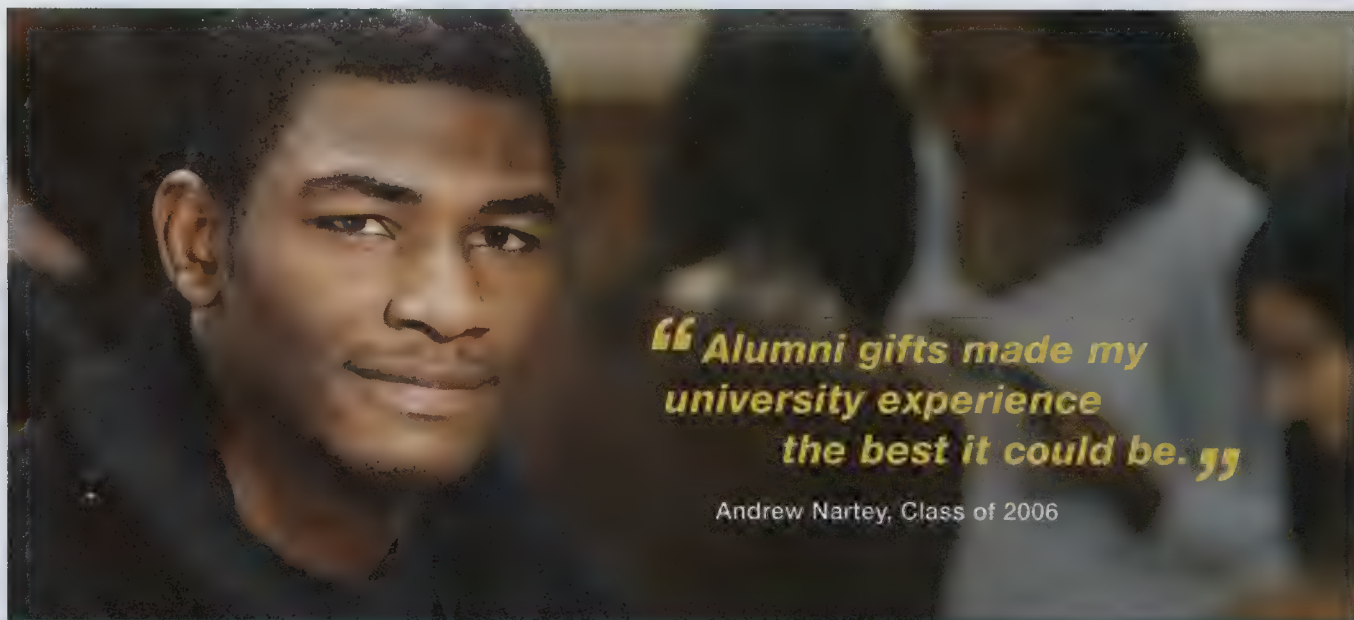
Washington Wrap

U of A alumni were among the thousands of people who visited the "Alberta at the Smithsonian" exhibits, part of the 2006 Smithsonian Folklife Festival in Washington, D.C., which ran over two weeks starting at the end of June. The event gave a snapshot of Alberta life through presentations from a variety of sectors—including food, music, business, and art.

Alumni from six post-secondary institutions in Alberta gathered at the Partners Across Borders concert held June 29 at the Kennedy Center for the Performing Arts. Alberta musicians Asani and Corb Lund and the Hurtin' Albertans performed.

"It was a great reception," said Lorna Arndt, project manager at the U of A's folkwaysAlive!, which partnered with Smithsonian Folkways Recordings to present the concert, "and our performers did us proud."

During the festival the Alberta government announced a new program that will allow Alberta students a chance to intern at one of the 28 Smithsonian centers throughout the world. The five-year pilot program is a partnership between the Alberta government, the Smithsonian Institution, and the U of A, which will administer the program. Each of the 10 yearly internships will be worth up to \$6,000 to support participating students with travel, accommodation, and other costs. Students will be able to apply for placements in various fields including arts, culture, history, and science.



“Alumni gifts made my university experience the best it could be.”

Andrew Nartey, Class of 2006

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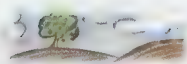
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landmarks

■ Mark Nuttall, professor of anthropology and Henry Marshall Tory Chair, received the first William Mills Polar Book Prize on June 22 for *Encyclopedia of the Arctic*, a three-volume work he edited that was published in 2005 by Routledge. The prize is awarded by the Polar Library Colloquy, an international consortium of polar libraries of which the U of A is a founding member.

■ Six faculty members from the U of A were named Canada Research Chairs in July, securing funding for their research over several years. Patrick MacDonald, who arrived in Edmonton in early July to work on diabetes research, was named Canada Research Chair in Islet Biology; Shoo Lee was named Canada Research Chair in Knowledge Translation and Health Care Improvement; Frans Pretorius was named Canada Research Chair in Gravitational Physics; Bernard Th  baud, Canada Research Chair in Translational Lung and Vascular Developmental Biology; Paul Veugelers, Canada Research Chair in Population Health. Brian Rowe, current Tier 2 Canada Research Chair in Emergency Airway Disease, had his funding renewed.

The University of Alberta now has 98 Canada Research Chairs worth \$94 million of funding.



Kahane



Lau

■ Two U of A professors received Canada's most prestigious undergraduate teaching award. David Kahane of the department of philosophy and Anthony Lau of the Department of Mathematical and Statistical Sciences received 3M Teaching Fellowships in June in recognition of their leadership and excellence in undergraduate teaching. Since the award began being given in 1986, U of A faculty have won 26 fellowships, more than any other university in Canada.

■ **Jim Edwards**, '62 BA, Board of Governors chair since March 2002, retired from the volunteer position effective July 1, 2006. Born in Edmonton, Edwards worked as a broadcaster in Edmonton and Vancouver and served as an Alberta MP from 1984 to 1993. He has also served as president and CEO of Economic Development Edmonton. During his time as Chair of the Board of Governors the University experienced tremendous growth.

Brian Heidecker, who has served on the Board for two years and previously served on the University Senate, will succeed Edwards.



■ **Timothy Caulfield**, '87 BSc, '90 LLB, Canada Research Chair in Health Law and Policy, professor in the

Faculty of Law and Faculty of Medicine and Dentistry, and research director of the Health Law Institute, has been elected a fellow of the Canadian Academy of Health Sciences. He will be inducted into the Academy in September 2006.

■ The National Research Council National Institute for Nanotechnology (NINT) officially opened in June. The \$52.2-million facility is designed to provide optimal conditions for nano-scale research and to foster collaboration between researchers. The facility will house more than \$40 million of the latest generation of scientific equipment, including electron and scanning probe microscopes, and chemical and material analysis instruments.

■ U of A researcher Fangliang He, associate professor in the Department of Renewable Resources and holder of a Canada Research Chair in biodiversity and landscape modeling, was awarded \$540,000 from the federal government's Network of Centres of Excellence in Sustainable Forest Management. The money will fund a project researching the plants and insects in Canada's boreal forests.



■ **Margaret-Ann Armour**, '70 PhD, associate dean of Science (Diversity), received the Order of Canada in July. Armour has

received many official honours and is well-known for her work as a founding member of Women in Scholarship, Engineering, Science and Technology (WISEST), through which she has worked to encourage young people, especially women, to consider careers in sciences and engineering.

■ The Agri-Food Discovery Place (AFDP) opened in late June at the U of A. The \$25-million research facility provides space for researchers from the Department of Agriculture, Food and Nutritional Sciences to work in three main areas: meat safety, crop use for food—including research into nutritionally enhanced food—and crop use for such industrial products as bio-degradable fuel sources and bio-plastics.

The AFDP has received funding from numerous partners, including Alberta Agriculture, Food and Rural Development's Bio-Industrial Technologies Division, Canada Foundation for Innovation, Western Economic Diversification Canada, Cargill Limited and the Canadian Wheat Board.

■ Several U of A professors were named to the Royal Society of Canada, the country's most prestigious scholarly institute, in the most recent round of elections: Daniel Woolf, Department of History and Classical Studies and dean of the Faculty of Arts; **Stan Boutin**, '77 BSc, Biological Sciences; Fernand Ellyin, Mechanical Engineering; Jonathan Hart, English and Comparative Literature; **Steve Hruddy**, '70 BSc(Eng), School of Public Health; Brian Jones, Earth and Atmospheric Sciences; and Adam Morton, Philosophy. Patricia Demers of the Department of English and Comparative Literature is the current president of the RSC.

■ **Bente Roed**, '72 BA, '76 MA, director of University Teaching Services at the U of A, received the 2006 Christopher Knapper Lifetime Achievement Award on June 15 from the Society for Teaching and Learning in Higher Education. She was recognized for her contributions to teaching, learning, and educational development. Roed started working with UTS in 1984 and currently serves as teaching awards facilitator in the U of A's Office of the Registrar.

■ The U of A has joined with the U of Calgary to create the Alberta Veterinary Research Institute (AVRI), a team of over 50 researchers studying animal diseases that have created major risks to public health, such as BSE, SARS, West Nile Virus, and avian flu. Through the Institute the U of A will be able to offer undergraduate and graduate courses, including a practice-based master's of veterinary public health program with an emphasis on veterinary science and food safety.

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A Class Act

Nursing graduates of 1950 create an award to support students in their final year of studies

In 1981, a young Dutch cultural anthropology student, Magda Maes, travelled to northern Ghana to learn more about the people of that country. That same year, Sam Waldner, a young man who grew up on a farm just east of Cardson, Alberta, was working in Ghana for a Winnipeg engineering company contracted to drill water wells and install water pumps for the Canadian International Development Agency.

The two met, fell in love and married. Shortly after that they moved to Nigeria, where Sam was doing much the same work, this time for the World Bank.

In 1985, their first child, Christine, was born; a year later Jeff was born. The children grew up in an international environment within the vast African nation where people from around the globe came to work with international aid agencies during what was proclaimed by the United Nations as the International Decade for Clean Drinking Water.

"It was extremely gratifying meeting people's real and immediate needs," Maes (now Waldner) recalls. Eventually, Nigeria developed its own expertise to develop and manage its water resources and the couple decided to return to Canada. Although Sam had a house in Calgary, they chose to return to a smaller city, closer to his southern Alberta roots, to a place they felt would be better for raising their children. In 1995, they settled in Lethbridge.

While in Africa, Waldner had home-schooled their children. They were special times, ones she doesn't regret a bit. But growing up she had always harboured a dream—to work as a nurse in a developing country.



Magda Waldner works at the Lethbridge Regional Hospital.

Unfortunately, in Holland, after she graduated from high school, a lottery system for admission into nursing school placed her on a wait list where she was 100 places from the top. Now, however, she found herself in

Lethbridge: her children were older, the family was making a decent living, the possibilities were as broad as the prairie landscape she now found herself in. A door once shut was now wide open.



Members of the Nursing Class of '50 gathered in Kananaskis for a reunion in 2005. Back row, left to right: Yvonne Munn, Aileen Knight, Gloria Brown, Isabel Taylor, Viola Coutu and Joan Day. Middle row: Lenore McGinnis (deceased), Eva Trott, Nora Fraser and Peggy Ryan. Front row: Nancy Ragan, Margaret Swann and Dorothy Beatty.

She enrolled in the collaborative nursing program offered by the University of Lethbridge and Lethbridge Community College. "I loved it; I dove into my studies, which I was able to do full-time," says Waldner, who had the foresight to take Biology 30 and Chemistry 30 while still in Africa in preparation for her eventual return to full-time studies.

In 1999, she landed her first nursing job in the psychiatric ward of the local hospital; in 2000, she went to work for the local health authority in its sex education program. "It was tough, but rewarding," says Waldner, who was responsible for sex education programming in the local schools. "It allowed me to keep my hands on the pulse of young people, to understand how they think."

Waldner also saw how important graduate education would be in advancing her career. Although accepted into the University of Alberta's health promotion program in 1999, the timing wasn't right and she had to decline. In 2003, however, she took a two-month leave of absence to take two core courses in the Faculty of Nursing's master's program. It was the beginning of a wonderful relationship with a Faculty that went the extra mile to help her balance the work-family-school equation.

She worked on weekends and during the evenings, travelled to Edmonton for intensive sessions, and completed online assignments. As the physician informatics educator for the Chinook Health Region, her timing was perfect. In the midst of computer-based changes, Waldner parlayed her workplace experiences into an intensive study of how people within health care are adapting to those changes. "We hope to take what we've learned and help people go through those changes," says Waldner.

"When I see something that isn't working, I try to make it work," she continues. "Our focus in nursing is a very holistic approach to life. Asking the 'why' questions makes for better people in health care."

The flexibility afforded the part-time master's student by professors Jeanette Boman, '71 BSc(Nu), '82 MA, '96 PhD; Joanne Olson; and Donna Lynn Smith, '67 Dip(Nu), '70 BSc(Nu), '73 Dip(Ed), '80 MEd, was matched, importantly, by her husband, who saw the value of his spouse's continuing education—particularly for the example it set for their children. Both children have gone on to pursue post-secondary education.

Late last year, Waldner received support from another source: she received a \$500 Class of September

1950 Graduate Award. "I was thrilled that someone would say: 'Good job.' I found it inspiring to think about the people in the Class of 1950; they don't even know the recipients, but they have faith in people," she explains, adding that it was immensely satisfying to be able to tell her children she had received the award.

At their 50th graduation anniversary in 2000, members of the Class of '50 had decided to create the award. "The dean, Genevieve Gray, gave an inspiring address," recalls class member Isabel Taylor, who now lives in Vancouver. "She explained to us where the greatest needs were, and she also spoke about how nurses were playing a much bigger role in delivering health care. We all chatted about it and decided to write our classmates."

The response was gratifying, says classmate Joan Day, an Edmonton resident. "It's always nice to help people out."

"Members of the Class of '50 are making a real difference," says Dean Beth Horsburgh. "When you support students like Magda Waldner, you are supporting work that can be used to improve health care on the frontlines. The research is translated almost instantaneously to the workplace."

—Michael Robb, '89 BA

The Award

The Class of September 1950 Graduate Award, endowed by the class of 1950, is valued at \$500 and is awarded annually to a full-time student registered in the final year of their graduate degree program (MSc or PhD) in the Faculty of Nursing on the basis of satisfactory academic standing and financial need.

Those wishing to donate to the endowment can contact Jessica Twidale, Director of Public Relations and Development, 2-143D, Clinical Sciences Building, Faculty of Nursing, T6G 2G3, (780) 492-5804.



Good ideas hatched from University research are being taken to the marketplace through campus spin-off companies

A

dvanced research leading to new products and procedures has always been a prime function of research-intensive universities such as the University of Alberta—one of the top four such universities in Canada with over \$417 million in externally funded research in 2005.

Since 1963 the U of A has been actively engaged in the creation of spin-off companies that help turn the innovations that come from the applied research of its academic staff and students into commercial entities that can capitalize on the new inventions created at the University.

Raylo Chemicals Inc., created in 1963, was the first U of A spin-off company. Founded by world-renowned chemist **Raymond Lemieux**, '43 BSc,

'91 DSc (Honorary)—who melded the field of carbohydrate chemistry with organic chemistry—today the company is a custom manufacturer of active pharmaceutical ingredients and was just recently sold to California-based Gilead Sciences Inc. for \$171 million.

Since that first foray into the commercialization of innovation, 84 other U of A spin-off companies have been formed; 69 are still active, employing more than a thousand skilled workers, with 90 percent of the companies operating in Alberta.

In 1994, the University created the Technology Transfer Office to help capitalize on the new inventions created here. This initiative was later joined by the Edmonton Economic Development Corporation and, in 2004, the not-for-profit service agency TEC Edmonton (Technology, Entrepreneur and Company

Development) was formed to help inventors and entrepreneurs successfully market their innovations.

In 2004–05, there were a record 109 inventions disclosed to the University through a Report of Inventions from TEC Edmonton. Researchers at the U of A own their intellectual property and therefore their inventions. However, because those inventions are developed at a taxpayer-supported publicly funded institution, University policy mandates that a percentage of any revenue generated from those inventions is paid to the University. The University currently has an equity share in 36 spin-off companies whose inventions have gone to market valued at over \$38 million.

Following are profiles of some of the spin-off companies that began life at the U of A and have taken the leap from the laboratory to the street.

Onware Software Corp.

Our end users,” says Fraser Gallop, '02 BSc, president and CEO of Onware Software, “are people who want to save time. With event planners, we save the time it takes to manually process registrations. On the construction and engineering side our product saves time in preparing documents and collecting input and approvals.”

One of Onware's main products is a suite of event management tools that help with everything from registration and web site preparation to scheduling and the printing of nametags. The second focus of their Internet-based software is assisting architects and engineers in managing the document flow on building sites—this can be substantial for even small structures and epic in scale when dealing with large construction projects.

Founded in 2002, Onware currently employs 10 people (up from two only a year ago) and all of its eight full-time staff are U of A graduates. The University itself was also, says Gallop, “a big help in getting everything started because we were able to hit the ground running with products and customers. Onware started with no external investment and has been funded almost exclusively from cash flow. But none of this would have been possible without the research money that went into the early development of the products.”

That early development meant Onware spent only about six months getting everything organized and ready to be sold to the public, although the technology they're employing dates back to 1997. Seven company founders including professors, students and another U of A spin-off company, Ava Software Lab, refined the products.

“All Onware's products have been heavily driven by clients,” says Gallop, “early adopters who saw an end-use benefit to them. They, in turn, have passed on the good word—our clients are our main sales force. With events, we have new people coming to us all the time hearing about how we helped another event and they are interested in our services as well. Last week, I found out one of the architects using our software was over at his competitor giving a demo of Onware. To date we've done about 100 application installs and our event management tools have been used to process over \$3 million in event registrations.”

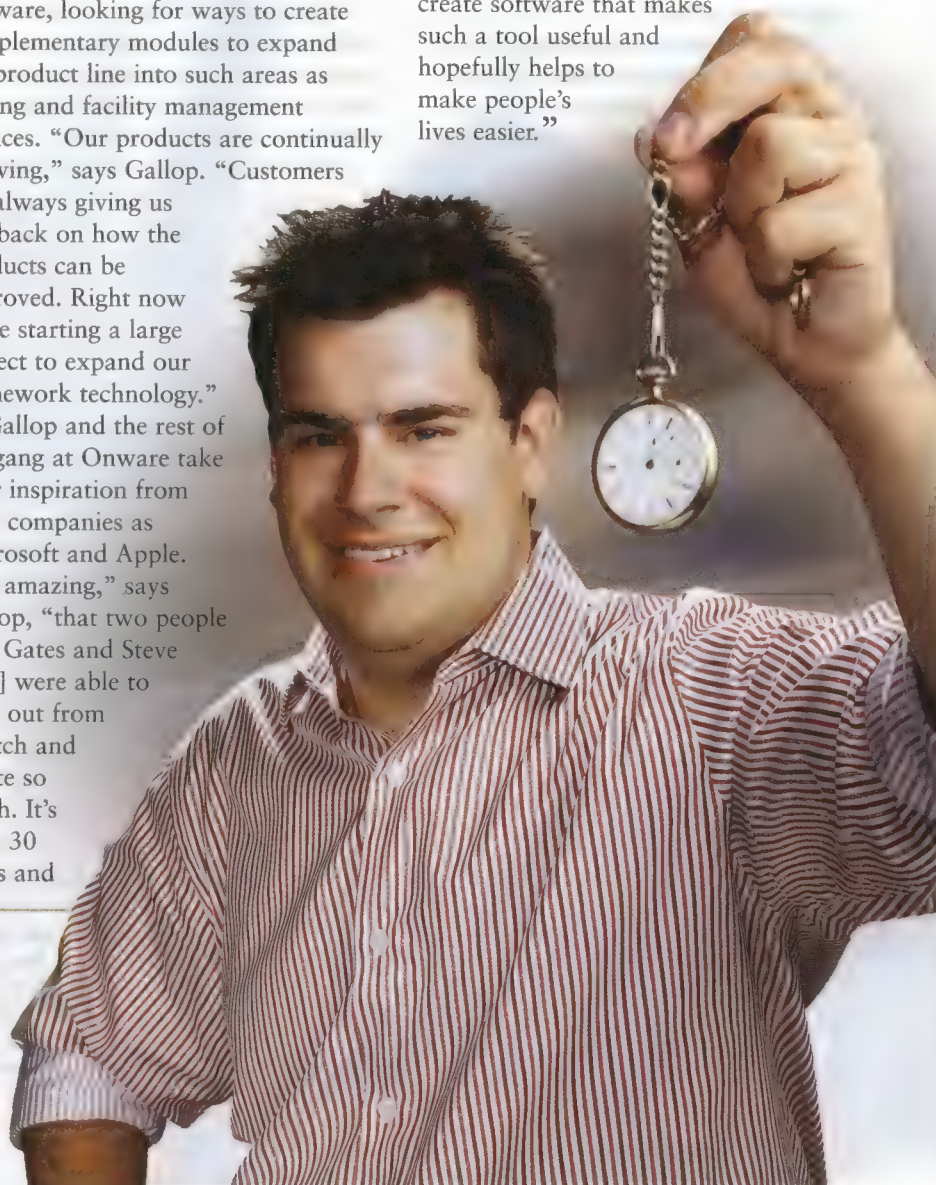
Onware continues to refine its software, looking for ways to create complementary modules to expand the product line into such areas as leasing and facility management services. “Our products are continually evolving,” says Gallop. “Customers are always giving us feedback on how the products can be improved. Right now we're starting a large project to expand our framework technology.”

Gallop and the rest of the gang at Onware take their inspiration from such companies as Microsoft and Apple. “It's amazing,” says Gallop, “that two people [Bill Gates and Steve Jobs] were able to start out from scratch and create so much. It's been 30 years and

they are still able to innovate and do cool things with their products. To have people all around the world using Onware's software for managing their events and projects would be awesome!”

Biggest Invention of the 20th Century?

“The microcomputer — it's a pretty obvious answer, but I would have to say that it has had the biggest impact on my life. There has been so much opportunity around the computer especially since it was taken into the home. I think it is amazing to be able to create software that makes such a tool useful and hopefully helps to make people's lives easier.”



Saving time is what Onware users are all about, says Fraser Gallop, whose company name came about during a client meeting when someone accidentally mashed together the words 'online' and 'hardware.'

Photography by Curtis Trent

Micralyne Inc.

MEMS — it's pronounced "memz" and Micralyne ships over 1,500 high-value MEMS components a month around the world, garnering annual revenue for their products of over \$15 million (company revenue for 2005-06 rose 53 percent from the previous year).

So what are they? Made of silicon, ceramics, glass and other substrates, Micro-Electro-Mechanical-Systems combine mechanical components with integrated electronic circuits to make miniscule, three-dimensional devices with features no bigger than a grain of sand—they're on the scale of microns and one micron is a thousandth of a millimetre.

Manufactured using semiconductor micro-fabrication technology, MEMS can radically alter the size, cost, complexity, power usage, reliability and performance characteristics of a product and are the closest commercially available technology to nanotechnology in Canada today.

"Simply put," says Micralyne President and CEO Chris

Lumb, "we can make things smaller, faster and cheaper, not to mention better."

But what things?

"Every automotive airbag uses MEMS accelerometers as the crash sensor to set off the airbag," says Lumb. "Hand-held bioanalysis instruments use lab-on-a-chip MEMS to create sensors that can detect the presence of diseases like HIV and cystic fibrosis or analyze DNA from a blood sample. These miniature devices reduce the time to find a result from days down to minutes. MEMS devices are also used in ink-jet cartridges for desktop printers to guide the placement of ink."

MEMS are also found in other automotive control system sensors, optical switching technology in telecommunication networks, lab-on-a-chip devices for drug discovery, and commercial pre-press equipment for printing today's most popular magazines—like the one you're now holding in your hands.

In existence since 1982, Micralyne started as the Alberta Microelectronic Centre, a not-for-profit research institute located on the U of A campus. Privatized in 1998, Micralyne currently employs about 150 people with the

majority of the engineering group and administration staff being U of A graduates. In addition, four of the five executive members are

alumni, and U of A Dean of Engineering David Lynch '82 PhD, sits on the company's board of directors.

The original concept behind the company was to promote the use of microelectronic technology in Alberta. "This led to contract work for a number of companies using microelectronic-based technology to make industrial components which resulted in Micralyne developing an expertise in MEMS, which is now the base of our competitive advantage," says Lumb.

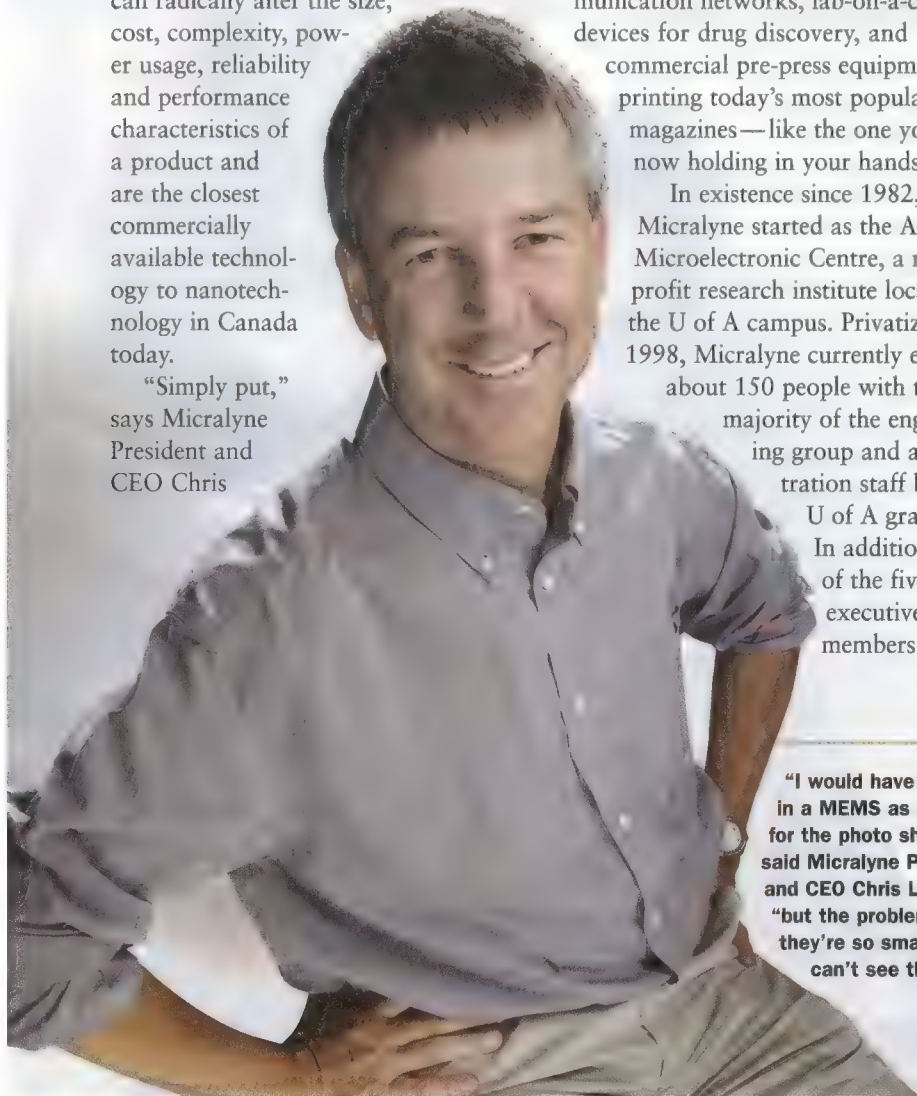
Communications, energy, life sciences, and transportation are the four cornerstones of Micralyne's target markets. "Our customers range from oil and gas companies and global research centres to biotech firms and telecommunication companies," Lumb says.

"Our relationship with the U of A is one of the key elements to our success. Starting off at the University gave us access to an abundance of resources, such as the appropriate machinery, clean-room facilities and people know-how. Because of this support, the Micralyne team was able to become a private company that has now worked with over 280 companies around the world, and has seen us become a world leader in offering a revolutionary new technology that allows for a wide range of innovative and useful products to be made in ways we could never make them before."

Biggest Invention of the 20th Century?

"The transistor is the fundamental invention of the 20th century. It has fundamentally changed the way we do almost anything. Perhaps a nano or MEMS device will be the transistor of the 21st century. Transistors can only change electrical signals, but it's possible that we can create MEMS processes that can change the way we connect with the physical world."

"I would have brought in a MEMS as a prop for the photo shoot," said Micralyne President and CEO Chris Lumb, "but the problem is they're so small you can't see them."



PBR Lab Inc.

Essentially," says Ram Mehta, '72 PhD, founder and president of PBR Laboratories Inc., "what we do is analyze food products, animal feed, water, and indoor air to make sure that the food we eat, the water we drink and the air we breathe are free from harmful contaminants."

Mehta was involved in research in the field of genetic toxicology during his tenure at the U of A and was instrumental in developing the commercial capabilities of genetic toxicology and other related bio-analytical services offered through PBR. These new analytical techniques have helped reduce the cost of research and development of new drugs, played a role in developing safe consumer products, industrial and agricultural chemicals, medicines and medical devices as well as safeguarding humans from harmful environmental exposures.

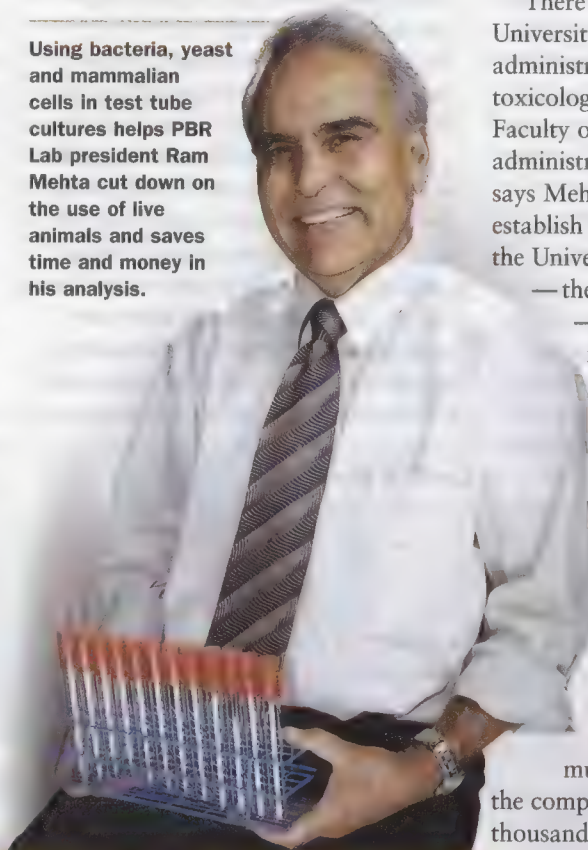
"And we do it all while reducing the need to use animals in our research," says Mehta. "Instead, we use micro organisms — bacteria and yeast — and mammalian cells in test tube cultures to screen various products for carcinogenic potential. These technologies not only cut back on the need for animals in research, but also offer results quickly — in days rather than months or years — and at a significant reduction in the cost of pre-clinical testing required by regulatory agencies."

Established in Edmonton in 1984, PBR is the first and only private sector venture in western Canada to undertake commercialization of this technology to primarily serve the pharmaceutical industry. "With the emerging pharmaceutical and biopharmaceutical industry in Canada," Mehta says, "I definitely saw the need of this service. Globally, demand of this service was increasing as the industry recognized the importance of this technology in reducing the cost of drug development."

It took about eight years to get the company to the point where it could receive accreditation and achieve

international quality standards as prescribed under Good Laboratory Practice guidelines. Along the way Mehta had a rude little surprise when he found out that the Canadian pharmaceutical business was nearly fully

Using bacteria, yeast and mammalian cells in test tube cultures helps PBR Lab president Ram Mehta cut down on the use of live animals and saves time and money in his analysis.



Biggest Invention of the 20th Century?

"Although not an 'invention' in the real sense of the word, I'd have to say it's the elucidation of the human genome. It has allowed us to see the human body naked to the basic molecules that direct its development and well-being. It has opened opportunities to develop targeted drugs and therapies at an unprecedented level. The underlying complex mechanisms of aging, cancer, various chronic diseases, and the immune system are now open to better understanding than ever before."

controlled by the big American drug companies and they spent little research and development money in Canada. "That situation," he says, "is slightly improving now with the gradual increase in the number of Canadian pharmaceutical companies."

There was also the matter of some University faculty trying to convince the administration to establish a genetic toxicology research laboratory in the Faculty of Science. "But the University's administration was quite supportive," says Mehta. "It encouraged me to establish this private venture and later the University's Industry Liaison Office — the forerunner of TEC Edmonton — was helpful to us in establishing relationships with various funding agencies."

PBR currently employs nine people full-time and one part-time and markets its product primarily to the pharmaceutical and chemical industries as well as government departments involved with health, defence, the environment and food. Their actual prime service — genetic toxicology — doesn't put much bread on the table, earning the company only about \$10-\$15 thousand annually.

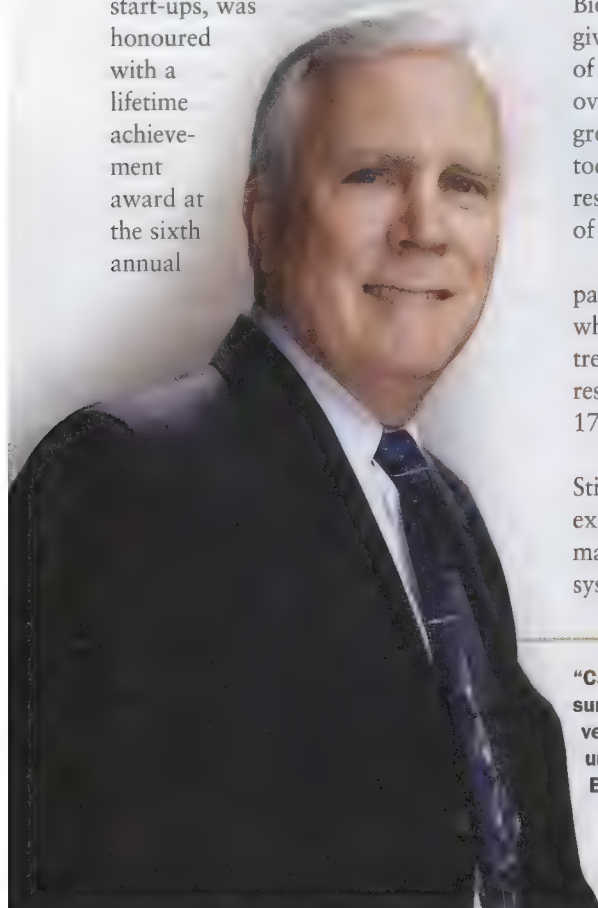
"That's primarily because of the client industry's demand for a centralized provider of full pre-clinical service, including the animal toxicology," says Mehta. "Our efforts in joint venturing with an animal toxicology provider, such as the Alberta Research Council's Tox program, the only animal toxicology laboratory in western Canada, have not been successful. However, with the same infrastructure we established for genetic toxicology, we have been successful in commercializing the other biochemical, immunological and microbiological technologies to serve food and environmental industries, which brings our total revenue to about half a million annually."

Biomira Inc.

Back in 1985, U of A professor emeritus (medical microbiology and immunology) Michael Longenecker, one-time senior vice-president of research and development and chief scientific officer for Biomira Inc., left the University to concentrate full-time on this spin-off company he'd helped get off the ground.

Biomira, the company Longenecker co-founded with the late Tony Noujaim, '01 DSc (Honorary) in 1984, was incorporated two years later (one of the first five companies created from U of A discoveries). Today it employs 92 people who are still working on developing cancer vaccines, pioneering work that Longenecker and Noujaim began working on in the 1970s before achieving encouraging results in the early '80s when, said Longenecker, "we showed we could actually cause the rejection of very aggressive cancer in mice."

In January 2006, the Egyptian-born Noujaim, who helped found five other Alberta biotech companies and was actively involved in numerous other start-ups, was honoured with a lifetime achievement award at the sixth annual



BioAlberta awards dinner. Taking the podium to address the audience he said: "Is our industry going to succeed? By all means, I've never had any doubt—never. We have an industry today that is worth \$1 billion. We now have a foundation that is going to grow, and grow, and grow. They say in my industry that if you develop one block-buster drug, you've made it. Well, I think in the next five years we're going to have multiple blockbusters."

One of those blockbuster drugs could be Biomira's latest product, Stimuvax, a synthetic cancer vaccine designed to induce an immune response in cancer patients. Set to enter phase 3—the last phase—of clinical testing later this year, Stimuvax works by introducing a synthetic antigen mimic that causes the body to mount an immune response to the cancer. The phase 3 study will involve over 1,300 patients from all over North America and Europe.

"In phase two of the study we saw very impressive results," says Edward Taylor, interim president and CEO of Biomira. "Cancer patients who were given Stimuvax survived for an average of two-and-a-half years versus the little over one year for the unvaccinated group. If you look at where vaccines are today, we have extremely encouraging results in phase two trials with a variety of different therapeutic vaccines."

The phase 2 study followed 171 patients with advanced lung cancer who had also undergone chemotherapy treatment. Following news of the study's results, Biomira's stock price went up 17 percent.

Therapeutic cancer vaccines such as Stimuvax belong to a new generation of experimental cancer treatments that may stimulate the patient's immune system to recognize the cancer. "Unlike

conventional cancer treatments," says Taylor, "these therapies are designed to be highly specific to cancer cells, which is why such therapies may have fewer effects on other cells in the patient's body."

Vaccines have traditionally been employed as disease prevention tools that teach the body's immune system how to make the antibodies it requires to combat a disease. They work by introducing into the body a weakened form of the disease they're attempting to ward off so that the body can develop its own natural defences against the attacking agent. Essentially it's a process where the body is being taught how to heal itself.

Although traditionally vaccines have been used as a preventative measure, the new cancer-fighting vaccines being developed are not meant to have the body cure itself or ward off the disease. If successful, they halt the growth of the tumour and by doing so the patients can possibly live longer. They do this by introducing a synthetic antigen that triggers an immune response which destroys the cancer cells.

Companies around the world are pursuing this research, hoping to find the magic bullet in the fight against cancer. In Biomira's case, the road to the present research originated at the U of A. "It was where our cancer vaccine technology started," says Taylor. "Although not related to this product, it was where our company began."

Where the road will end, no one knows for certain at this point. But, as Taylor points out, in the near future some analysts are expecting the market for the current crop of cancer immunotherapies to be worth billions of dollars.

"Cancer patients who were given Stimuvax survived for an average of two-and-a-half years versus the little over one year for the unvaccinated group," says Edward Taylor, Biomira's interim president and CEO.

Biggest Invention of the 20th Century?

"The Internet."

MPB Lasertech Inc.

If you've ever ordered a flock of those pink flamingos for your front yard, chances are you might have also received a 12-centimetre-high metal flamingo that was laser cut by the folks at MPB Lasertech. You might have also seen their work on television or on stage — showing up in the over-two-centimetre-thick acrylic they've been commissioned to cut as part of a TV set and other cutting that has become part of the scenery at the Citadel Theatre. Or if you look at the swirls cut into the artistic and acoustic wood paneling in Edmonton City Hall, you're also seeing their handiwork.

"Each product we make is customer specific," says MPB Operations Manager Gary Yakimchuk, '75 BSc, '82 BEd, '91 MBA. "We're a custom fabrication shop selling laser cutting services, which means we use lasers to cut metal for other companies or individuals. For example, we cut perforated gun tubes used in the oil and gas industry, turf blades used in commercial lawn care machines for grass maintenance on golf courses, boxes for the communications industry, and the list goes on and on."

In the early '80s, a team of U of A engineers started the Laser Institute, a not-for-profit organization with the mandate to introduce the nascent laser technology to Alberta. "This," says Yakimchuk, "was the forerunner of MPB Lasertech. We pioneered the commercial use of lasers in Alberta and have been providing laser cutting and materials processing services for

the North American market since 1986. We were the first company in Alberta to offer these cutting services. Now the marketplace has many copycats. But we got our start through the U of A and now we give something back by sponsoring an Industrial Research Chair in the Faculty of Engineering currently held by Bob Fedosejevs."

Originally called just Lasertech, it was acquired in 1997 by a private company based in Montreal specializing in high technology systems called MPB Technologies. Thus was born MPB Lasertech where 31 employees — based in Edmonton and Calgary — work around the clock turning a tidy profit.

Laser cutting is a thermal process that utilizes heat to cut through just about any material by melting the substance in its path. The process will

work with anything from fibreglass and rubber to wood and composites, but is most effective with carbon steel or stainless steel. Metals such as aluminum and copper alloys require more powerful lasers because of their ability to reflect light and conduct as well as absorb heat.

To facilitate the precise cutting requirements for a wide range of client needs and to be able to duplicate those cuts over and over again with a high degree of accuracy requires the assistance of computer-aided design (CAD) whereby electronic data from a CAD drawing is used to control the complex cuts.

"What all this means," says Yakimchuk, "is that cuts with intricate features are easily achieved. Some of the other benefits of using lasers are the high speed of the process, the elimination of the use of dies, the fact that no mechanical force is applied to the material being cut and you get a high quality cut with better fit and appearance. Plus it's more cost-effective over a large range of production quantities, including prototyping."

Biggest Invention of the 20th Century?

"Computers or computing technology. Being able to program and control processes, systems and machines has changed the way the world does business. I remember using the very first spreadsheet ever invented, and now, what can be done on the Internet and with computer technology is mind boggling."

"Some of the benefits of laser cutting," says Operations Manager Gary Yakimchuk, seen here with his perforated 'gun' tubes, "are the high speed of the process, the elimination of the use of dies, and a high quality cut with better fit and appearance."



Scanimetrics Inc.

Scanimetrics founder, president and CEO Steve Slupsky, '86 BSc, '88 MSc, and co-founder Brian Moore, '74 BSc, (currently chief technology officer of BigBangwidth Inc., another U of A spin-off company) have some really big plans for some awfully tiny devices — and they owe it all to something a little birdie told them.

What Scanimetrics is aiming to do is revolutionize the testing procedure used on semiconductor chips to make sure everything they're used in — from personal computers, cell phones and automobiles to medical equipment, industrial equipment and home stereos — works as advertised.

"Every semiconductor chip manufactured requires testing before it is incorporated into consumer or industrial products," says Slupsky, "and that's where Scanimetrics comes in. The semiconductor manufacturing industry is huge. We're talking revenues of over \$200 billion U.S. annually."

Current chip testing methods use physical contact to test semiconductors while they are still on a wafer. Chips could be made smaller — but the chips have to be a particular size in order to accommodate the testing process. In many cases, costs associated with testing

chips are more than the cost of manufacturing them. And sometimes the physical contact required for testing chips can damage them.

What Scanimetrics does is use radio frequency technology to perform semiconductor testing — a "virtual probe" is put close to the chip wafer undergoing testing and the circuits are tested by radio signals passing between antennae and transceivers built onto both the chips and the probe. All this works in microscale. "The antennae we build are about 100 microns wide and the virtual probe is less than 100 microns away from the wafer it is testing," Slupsky says. "To put that in perspective, 100 microns is about the width of a human hair."

Slupsky compares the Scanimetrics testing process to the innovations CDs brought to the recording industry. Traditional chip testing methods can be compared to the needle contact that was used to read a vinyl LP. Scanimetrics testing is similar to CD technology in that it uses no contact, has better signal quality, and does not damage the media.

Initially conceived in 1999, Scanimetrics was incorporated in 2001 and started operations in 2003. The Edmonton-based company currently has two customer trials under way — one in Europe and the other in the U.S. — and at present employs 21 people, including 13 U of A alumni, one co-op student and four graduate students.

"Edmonton is hardly the hotbed of the semiconductor industry," Slupsky says. "But the University of Alberta has a very strong engineering faculty so we've relied on the U of A as a source of employees. Also, we needed access to technical facilities to develop our product and took full advantage of our access to the Nanofab facilities and NINT

[National Institute for Nanotechnology] at the University. Being able to access these world-class facilities and not have to build our own laboratories has been really important to us. And the TEC Edmonton office also supported us in the development and protection of our intellectual property."

The immediate beneficiaries of their new technology will be semiconductor manufacturers who will be able to test the chips faster and at less cost. Chips could also be designed to be smaller and more densely packed with features.

"In the long term," says Slupsky, "we hope consumers will reap the benefits of our technology. Electronic medical devices could be smaller, automotive safety controls could be more feature rich, and our technology could enhance the next generation of consumer electronics."

As for that little birdie... co-founder Moore had been helping to develop a bird and butterfly electronic tagging technique at the U of A when the microscale radio frequency technology employed in the tagging process triggered his thinking towards other applications.

"When Brian first told me about the technology and his concept," says Slupsky, "I said, 'You've got to be kidding me.' But then I began to see the possibilities. So did others. Denny Sabo, a successful Silicon Valley based former semiconductor company CEO acted as a mentor during the company's earliest stages, long before Brian and I were in his basement and got an early prototype of the technology to actually work!"

Biggest Invention of the 20th Century?

"The PC is the single best invention of the 20th century. Why? Because it allowed Bill Gates to make enough money to form the Bill and Melinda Gates Foundation and that Foundation is going to make a tremendous positive impact on our world."



Scanimetrics president Steve Slupsky is thinking small and compares the leap forward in his new semiconductor chip-testing technology to the way CDs took over the recording industry from vinyl LPs.

Ovo-Biotechnica Inc.

Now we finally know which came first — the chicken or the egg. At least that's the way it happened with University of Alberta Agriculture, Food and Nutritional Science professor Jeong Sim.

"Throughout my career my research animal has been the chicken and its product, the egg," says Sim, who retired in June after 20 years of teaching and research that has resulted in one well-known spin-off company, Ovo-Biotechnica, and one other on which the ink on the contract has yet to dry — IGY Inc. (a company developing and marketing products that help combat infectious pathogens and allergens).

The chicken gave Sim the egg that became his career-long research passion as he explored its life-supporting value and, along the way, developed the "Designer Food Concept" research program at the U of A. The lofty ambition was to improve the egg's nutritional value through the chicken's own metabolism and immunology. This research led Sim to develop Dr. Sim's Canadian Designer Eggs. A product of his spin-off company launched in 1992, they were eventually marketed in 11 different countries — and helped revive egg sales across the board.

"I was a brand new faculty member at UBC in 1978," says Sim. "One day two gentlemen who had been in the egg business for life — a family business — knocked on my door and said to me, 'Our business is in trouble. Egg consumption is going down one percent every year and has been for a while. If this trend continues, our industry will be a dinosaur. We'd like to know if you have any solution.' That was the challenge for me. That's when I started my research before moving up here in 1986."

Another challenge followed at the U of A in 1990 after Sim gave a lecture on his research into changing the food that chickens consume. "You are what you eat," says Sim — who was able to have poultry produce eggs in which the fatty acid composition of the yolks was

altered. The yolks of these eggs were enriched with a high concentration of omega-3 fatty acids, a substance first proven to protect against coronary heart disease after a study done on the fish-consuming habits of Greenland Eskimos.

"Cholesterol is needed," he says, "it's essential to our body. But if the associated fat is not favourable to our bodies, it's not a good thing. The technology I developed enriched egg yolk lipids with omega-3 fatty acids."

Before Sim's groundbreaking research, the main supply of omega-3 fatty acids in the human diet was fish and fish oil. But the new challenge came from a farmer after Sim had delivered his lecture.

"After my talk in 1990," he says, "a farmer approached me and said, 'Yeah, good idea. But can you apply it to the real industry?' I was challenged by that and that was the beginning of the spin-off company, Ova-Biotechnica."

Sim signed a contract with the University to market his designer egg in 1992. He had some help from the Industry Liaison Office at the time and did receive some royalties that, he says, "helped in his mission work" — a devout Christian, he's currently working to raise money to help support Korean orphans and last year raised \$8,000 for this cause.

"If I was a really good manager then it could have been a wonderful industry

for me," he says. "But I wasn't and there was nobody helping me so eventually everybody copied me. In theory, all of the global companies using this technology owe something to my original research; but in practice, most of the companies imitate and then forget about you."

"But the significance is not the money making; the significance is the impact on the health issues of Canadians and people around the world."

Biggest Invention of the 20th Century?

"Antibiotics. That was a huge invention that saved a lot of people, but at the moment my concern is that the effectiveness is fading away and microbes are getting smarter and smarter — how do we combat that, how do we defend ourselves? The immune system is our last resort to protect ourselves from a hostile invading environment — microbes. The challenge is to protect that system."



Ovo-Biotechnica's Jeong Sim is the man behind Dr. Sim's Canadian Designer Eggs, a product high in omega-3 fatty acids that helped rejuvenate egg sales world-wide.

DriveABLE Assessment Centres Inc.

How can we make scientifically justifiable and fair judgments about which drivers are able to drive safely and which drivers are medically impaired and no longer able to drive safely?

That was the question facing U of A professor emeritus (psychology and neurosciences) Allen Dobbs and the one he created DriveABLE to address ... it was also a question that was very near to his heart.

"My change from basic, curiosity-driven research to applied research was inspired by my aunt," says the former director of the Neurocognitive Research Unit of the Northern Alberta Regional Geriatric Program. "She was very dear to me and enabled me to go to university. She was also a victim of Alzheimer's disease. In the early to mid stages of the disease the medical community was unable to diagnose her illness. It was the mid 1980s. I was repeatedly told 'she is just getting old.' But I wasn't convinced that the memory and cognitive ability changes she was showing were due to normal aging so I changed my area of research to age-associated memory changes."

That started him on the path to the development of an effective and fair scientifically based driver evaluation process. "It began in 1990," Dobbs says, "when physicians from the Memory Clinic told me about their frustration in having to make very subjective decisions concerning the driving competence of their patients because they didn't have any tools to quantify a patient's ability to drive."

After thinking through the issues Dobbs developed a research program to address the problem. When he started his research he thought he was in for a long haul where he'd have to repeatedly cycle through new and improved versions of his driving evaluation methods. "But," says Dobbs, "the 'aha' moment came after the first phase of the research when the data clearly showed that we likely were at the end stage. The second phase

quickly shifted from refinement to validation."

It would still be eight more years before Dobbs would take early retirement from the University (and be selected as an Alberta Innovator of the Year by the Alberta Heritage Foundation for Medical Research) to concentrate fully on the spin-off company derived from his research. But by 1998 DriveABLE Assessment Centres Inc. was up and running and now has six employees (five U of A graduates) in its Edmonton home office. In addition, 20 DriveABLE Centres throughout Canada and the U.S. directly or indirectly provide employment for about 50 people.

Dobbs, who is the company's president, CEO, and chairman of the board, credits the University with encouraging the research-to-practice transition and with enabling access to funding to reach that goal. "It also," he says, "provides an environment that promotes excellence in research and education and that attracts bright and energetic students who continually challenged me to improve my thinking and methodologies, and were always a source of energy and inspiration."

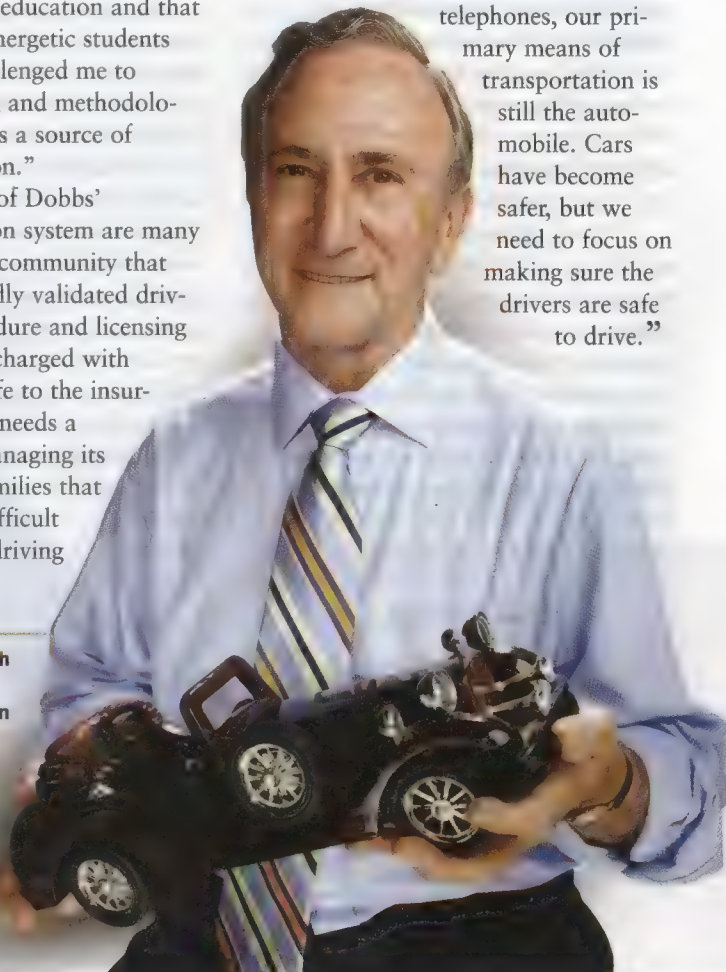
The beneficiaries of Dobbs' DriveABLE evaluation system are many — from the medical community that now has a scientifically validated driving evaluation procedure and licensing authorities who are charged with keeping the roads safe to the insurance industry which needs a defensible way of managing its financial risk and families that are faced with the difficult decisions about the driving of family members.

Inspired by an aunt with Alzheimer's disease, DriveABLE founder Allen Dobbs has gone on to create the world's first scientifically based driver evaluation program for medically impaired drivers.

"With our aging population and the unfortunate association between aging and impairing medical conditions," Dobbs says, "providing a driving evaluation system that can fairly and accurately identify medically impaired, unsafe drivers can enhance road safety and reduce the social and personal costs of the tragedies prominent within this silent epidemic."

Biggest Invention of the 20th Century?

"Information technology including the Internet, and personal computing devices. Interestingly, when I was young it was thought that by the 21st century we'd all be flying around with our personal jet packs. But despite being able to go to the moon, communicate in seconds with people half a world away, pinpoint our location with global positioning systems, and communicate with 'Dick Tracy' like miniature wireless telephones, our primary means of transportation is still the automobile. Cars have become safer, but we need to focus on making sure the drivers are safe to drive."



CV Technologies Inc.

A team from Carolina may have taken home the Stanley Cup this year but, let's face it, the game will always be synonymous with more cold weather climes (borne out by the fact that if you actually look at Carolina's 24-man roster you'll see 10 Canadians, including four from Alberta).

So what better place than Canada to launch an herbal-based natural product called ColdFX that supports and stimulates the immune system to ward off a cold or alleviate its lasting power once it arrives? And who better to promote the product than some of hockey's biggest names?

Not that **Jacqueline Shan**, '93 PhD, president, CEO and chief scientific officer of CV Technologies, even knew a hockey puck from a cow pie when she first arrived in Canada from China in 1988 to begin studies at the U of A. Shan was studying for her doctoral degree in pharmacology at the Chinese Academy of Medical Sciences in Beijing when a professor suggested she undertake advanced research at the U of A on the recommendation of his good friend, Peter Pang — the U of A professor with whom Shan would eventually collaborate to create ColdFX (and who was tragically killed in a car accident in China in May 2005).

"Initially," says Shan, "I planned to study here for one year. But then Tiananmen Square happened and I was persuaded to finish my pharmacology thesis here and enter the graduate school to pursue my second doctorate in physiology."

Shan's story has a Horatio Alger, rags-to-riches quality about it, as she didn't even speak much English when she first arrived in Canada. To compensate for her lack of language skills she took a tape recorder to all of her lectures. "Later I would play it back over and over again," Shan says, "and write down every single word from the tape."

Somehow during this period she also managed to start CV Technologies,

founded in 1992. The company's most well-known product — ColdFX — was developed over a 10-year period by Shan and a large pool of mostly U of A-based scientists from various disciplines.

But where it all really began was back in China where Shan remembers being fascinated with the herbal medicines her grandmother used. "She was always heading off to the herbalist when anyone started sneezing or coughing," Shan says. "Herbal medicine is still used in some 70 percent of Chinese health care and we know it helps the immune system. I wanted to find out why it worked, explain it scientifically, and offer it as an alternative to traditional Western medicines."

But to get to where the company now employs over 65 people and has posted earnings of almost \$30 million over the first two quarters of this year took not only years of research, but also \$20 million in development capital. In fact, the company was teetering on bankruptcy when the hockey connection began to turn things around.

The Edmonton Oilers were the first team to regularly use ColdFX before word began to spread around the NHL to the point where pretty much the whole league was using it. And when Shan hired public relations veteran and former CBC executive Warren Michaels to help market the product he immediately took steps to not only get Shan's own story out to the media, but also to use the ColdFX-NHL connection to its best advantage. Soon the company name was everywhere, particularly after ColdFX user — and *Hockey Night in Canada* commentator — Don Cherry signed up to be the product's spokesperson.

"A little over two years ago we asked Don to be our spokesperson," says Shan (Mark Messier has also recently signed on to promote the product). "We said we were a small company working to establish itself and he was delighted to

find out we were Canadian. We told him we would issue a cheque to a charity of his choice if we were successful and this year we wrote that cheque for \$100,000." ■

Combining the selling power of hockey with an all-natural product to promote health has helped president Jacqueline Shan turn CV Technologies into one of Canada's most successful companies.



Biggest Invention of the 20th Century?

"The discovery of penicillin by Alexander Fleming in 1928 that was later used to treat many human diseases."

To Build a Bursary

A former professor helps students
find the time to study

For more than 20 years, Neil Madsen, '50 BSc(Ag), '52 MSc, was responsible for the honours and specialization programs in biochemistry, counselling students and guiding them in course choices. Although he retired in 1993, the 78-year-old Faculty of Medicine and Dentistry professor emeritus is still helping students... and plans to continue to do so many years into the future.

"I am appalled at the extraordinary amounts of tuition that students have to pay, and the amounts of loans they have to take out," says Madsen, his voice emphatic with concern. "I decided to see if I couldn't do a little bit, in one little corner of the University, to help some of these students out. Just to lighten the load of the undergraduates."

Madsen's little bit turns out to be — in the practical lives of students — quite a lot. He has taken an investment he felt he could live without, and turned it into time... time for students to focus on what they came to the University of Alberta to do: to study and learn and become leaders in their fields.

He and his wife, Laura Randall-Madsen, '92 BA, created the Madsen and Randall Bursaries in Biochemistry. They are funding it through Madsen's Registered Retirement Income Fund.

"I have a pretty good pension at the U of A, so I decided I really didn't need the RRIF. It wasn't all that big." His adult children agreed that students today need money and were fine with their father giving away what might have been their inheritance.

"The University is the beneficiary of the RRIF — it goes directly over when I die. But I wanted to start using it long before then," he says. So Madsen devised a unique solution.

"A RRIF is the fund you move your RRSP into after you retire... say, when you're 69. You have to draw a minimum percentage of the money out of the RRIF every year, since its purpose is to provide you with an income," he explains.

What he does is take those minimum payments and donates them to the University. The first \$5,000 of that donation goes toward bursaries, and any remainder goes into an endowment fund Madsen is building.

By nature, the RRIF will decrease because each passing year a greater percentage of the fund must be withdrawn. "If I live to be 100, it will be gone," he says, "but the endowment will have built up to a sizeable figure by then and will continue to provide for bursaries."

This year's payment contribution he estimates will be around \$12,000, meaning \$5,000 for the bursaries, and \$7,000 for the endowment. When he started it, the RRIF was worth about \$100,000, but it has done well, and instead of decreasing in value, it has actually increased.

He likes the idea of funding bursaries over scholarships. Scholarships, he believes, being based on superior academic achievement, tend to go to children from fairly well-to-do families, to children who don't have to work part-time and who have other advantages coming from a family used to education and study. They are awarded the scholarships whether they need them or not. On the other hand, Madsen says, "there are plenty of young people who have to work part-time even while they're taking courses, and because of that, they just don't get the marks." Bursaries are applied for by students with satisfactory academic standing who have a financial need. When establishing a bursary the donor can also include other selection criteria.

On occasion he receives letters from students who have benefited from the Madsen and Randall Bursaries. Three years ago, a note of gratitude arrived from a fourth-year student in biochemistry. She'd been taking a heavy program, and had been working 30 hours a week. The bursary allowed her to quit her job for the rest of the year and she was able to concentrate on her studies.

"By the time she wrote me, her marks had already improved. That just confirms why I wanted to do this, to make a difference to these kids."

When asked if he or his friends were ever offered a significant hand up in their university years, he says not really, and explains that it didn't seem as necessary as it is now.

Neil Madsen and Laura Randall-Madsen



"When I graduated in '50, I think tuition was about \$125 a year. I could earn that in just over a month in the summer," he says. "Summer jobs would typically pay at least \$100 to \$150 a month in those years, and they were easy to get. This was the post-war boom, in the late '40s and into the '50s. Students were able to earn all their tuition and a fair amount of what it would cost them to live the following year. Of course, if they were fortunate enough to stay at home, then they had it made. Myself, I am grateful to my parents for making it possible for me to do so."

In addition, many of Madsen's classmates were veterans, and the government provided funding for them to attend university, because the war had prevented most of them from pursuing a post-secondary education.

So, does he have any sage words of wisdom for today's students?

Madsen laughs. "Oh, I don't believe in that," he says. "I don't think the young need much in the way of words of advice. They're pretty savvy. Just give them the help they need and let them find their own way. When I was counselling students," he says, "I didn't have the gall to tell them how to run their lives. I just wanted to know what they wanted to do and how I could help. That was my philosophy. Let them talk enough and they will figure out what they want to do themselves."

—Suzanne Harris, '89 BA

How the Madsen Gift Works

Neil and Laura agree that their lifestyle is unchanged by the donation of Neil's annual RRIF income. Each year, Neil directs the RRIF payment from his financial institution to the endowment that bears his and Laura's names. By previous agreement with the University, the proceeds are split by a formula so that a portion supports bursaries for students and the remainder builds the endowment capital. Neil knows the RRIF payments will decrease over time, but by then, the endowment capital will have grown to ensure self sufficiency. As a final step to ensure the bursary is well tended, Neil has included in his will that the University of Alberta be the beneficiary of the RRIF.

Dr. Madsen receives an annual charitable receipt for the amount of his donation. In addition, his estate will receive a donation receipt for any residual portion of the RRIF designated to the University of Alberta.

To learn more about donating RRIFs and RRSPs, or how to make other planned gifts, please visit www.giving.ualberta.ca or call (780) 492-0332.

For more information on establishing a student award in conjunction with a legacy or estate gift, please contact the University of Alberta Gift Planning Office.

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If all you want for Christmas is your two front teeth, your wish may be about to be granted. A trio of University of Alberta researchers has filed a patent for a device that has demonstrated the ability to re-grow teeth.

The process for regenerating lost teeth had already been tested on rabbits and humans with the encouraging results published in the *American Journal of Orthodontics and Dentofacial Orthopedics* by Egyptian-born Tarek El-Bialy while he was assistant professor at King Abdul-Aziz University in Saudi Arabia. The technique involves a treatment called low-intensity pulsed ultrasound. The problem was to get positive results El-Bialy had to use a hand-held ultrasound device held against the treatment area for 20 minutes every day for a year.

Fast forward to 2005 when newly arrived U of A Faculty of

Medicine and Dentistry associate professor Tarek El-Bialy is attending a University orientation seminar for new staff and happens to meet fellow associate professor (Engineering) Jie Chen. The two begin talking and El-Bialy finds out Chen has been recruited here to work at the prestigious National Institute for Nanotechnology.

"Then we started talking about my research into repairing dental tissue," says El-Bialy. "I told him I had a big problem, literally. The device I was using was just too big. 'No problem,' he said. 'I can pretty much make it as small as you want.'"

Thus was born the wireless ultrasound machine. About the size of a tack, it's inserted into a patient's mouth where it provides ultrasonic waves that transmit through the gums to stimulate new dental tissue formation (cementum and dentin) and hence tooth root growth. Best of all, the tiny machine only needs to do its work for 20 minutes a day for a month before positive results are noticed.

Assisting Chen and El-Bialy to build the prototype was another U of A associate professor (engineering), Ying Tsui. Together the three were ready in less than a year to apply for a patent in the U.S. for their "miniaturized system-on-a-chip" that has been approved for use by both

American and Canadian regulatory bodies.

"If the root's broken, it can be fixed by re-growing the tooth root," says El-Bialy. "Patients can now have their own tooth in their mouth, rather than foreign objects."

This new device is expected to be available to the public in two years.

Hockey may never look the same again.

"I told him I had a big problem, literally. The device I was using was just too big. 'No problem,' he said.

'I can pretty much make it as small as you want.'"

Teen Rex

Everybody knows about teenage angst, but in the Hobbesian world of teen dinosaurs where life could suddenly turn nasty, brutish and short, angst was the least of their concerns. New research published in the journal *Science* and co-authored by U of A professor Phil Currie focused on growth rings found in various carnivores' bones—such as *Tyrannosaurus* and *Albertosaurus*.

The normal attrition rate was found among very young (under two years old) dinosaurs that would have lacked the means to survive predation and disease. But the study found that after

the 'terrible twos,' 70 percent survived until their teen years when they reached sexual maturity and started competing for mates, and then all bets were off as the mortality rate rose to around 23 percent. And they never had to worry about not trusting anyone over 30 as none reached that august age.

The dinosaurs studied were all from Alberta, and Currie co-authored the paper with three colleagues from Florida State University, including Gregory Erickson.

"Love was a dangerous game for tyrannosaurs," Erickson told the

Con Games

The current issue of the journal *Victims and Offenders* features unique research by U of A post doctorate fellow from the Faculty of Physical Education and Recreation **DJ Williams**, '04 PhD, into gambling inside a correctional facility. Interviewing 11 sexual offenders at a community correctional centre in Utah, Williams discovered the motivations, rewards, and punishments surrounding this inmate activity to be more varied and complex than he at first surmised.

"There appear to be more benefits and differing motivations than I thought there might be," Williams says. "I hadn't considered the possibility of push-ups being a consequence for losing during gambling. I was also surprised at how innovative offenders can be to keep things interesting."

Poker and pinochle were the most common forms of gambling that paid off in, of course money, but also food and personal effects and sometimes even sexual favours were on the table.

Boredom, lack of other recreational opportunities, risk, and the socializing opportunities afforded were all cited as reasons for inmate gambling, which is ostensibly forbidden in any correctional facility but is oftentimes tolerated. What's not tolerated, at least among the participants, is welching on your bet, which can lead to the offending party being beaten or stabbed.



Heiren Byles

DJ Williams says you got know when to hold 'em and when to walk away — particularly when playing your hand in prison.

"The victimization in a minority of cases is appalling," says Williams. "But if prison gambling provides important leisure experiences, it needs to be further examined. In the U.S. over the last 25 years, correctional policy has become much more punitive while the prison population has also grown sub-

stantially, and a common perception seems to be that offenders don't deserve leisure activities. But the more we understand how leisure relates to different types of crimes and different motivations the more we can really impact crime prevention and rehabilitation."

Associated Press. "As they came into sexual maturity there was a good chance they started fighting over mates, fighting over nesting areas. Females were also under stress to lay eggs and some may have brooded them, meaning they had to stay at the nest and wouldn't have been able to hunt prey."

"One of the surprises to me was that the overall pattern of survivorship fits closer to an attritional model rather than the catastrophic model we were expecting," says Currie. "Hopefully this will help us to unravel the cause of death of so many carnivores at one location."



The Metabolome Project

David Wishart's grand plan to identify the biochemical fingerprints of disease

On the southern edge of the main campus, the University's health sciences complex throbs with a feverish energy: a swarm of students and staff come and go, patients and their visitors spill out on to the sidewalks; emergency vehicles scurry to and fro; construction cranes scar the skyline as creations of concrete, steel and glass rise up to replace the tired structures of brick and wood that once claimed the ground.

From the steps of Athabasca Hall, basking lazily in the record-breaking heat of an early July day, the impassioned war on disease seems far away. But inside this building, the University's first home on campus and now part of the computing science complex, is the nerve centre of a project that could conceivably have a greater impact on the practice of medicine than anything else ever done on the University of Alberta campus. Or almost anywhere else, for that matter.

The initiative is called the Human Metabolome Project and the idea behind it is extremely simple: to make it possible to identify the biochemical fingerprints of disease. Analogous to the marks left by loops and whorls of skin would be the signature traces of metabolites—those small molecules that result from the biochemical modification of chemical compounds in living organisms and cells—identified using nuclear magnetic resonance (NMR) spectroscopy. To this end the Human Metabolome Project has undertaken the identification, quantification, cataloguing and storage of all metabolites that can potentially be found in human tissues and biofluids (blood, urine, tears, etc.) at concentrations greater than one micromolar (a millionth part of a litre).

To date more than 800 metabolites have been identified, and it is expected that by the end of 2006 a total of

1,400 such compounds will have been characterized, quantified and archived into databases accessible through the Internet. In addition, pure samples of each metabolite will be preserved by storing them in freezers at a temperature of -80°C .

The motivating force behind the Human Metabolome Project is a U of A scientist whose relentless curiosity isn't confined by traditional disciplinary boundaries. As an undergraduate at the U of A, David Wishart, '83 BSc, majored in physics. After earning two graduate degrees at Yale—in molecular biophysics and biochemistry—he returned to the U of A as a postdoctoral fellow with the Protein Engineering Network of Centres of Excellence.

When he was ready for a continuing faculty position, despite lucrative offers from numerous suitors at other institutions, he decided to stay in his hometown and accepted an appointment in the University's Faculty of Pharmacy and Pharmaceutical Sciences, where he currently holds the Bristol Myers Squibb Chair in Peptide Metabolism. He accepted his University academic staff position a dozen years ago—not a long time by some measures, but ample time for Wishart, who now has joint appointments in the Departments of Computing Sciences and Biological

Sciences, to establish the University's

Wishart was a new academic project took virtually recalling the which the Human owes its existence. Wishart was pre-guest lecture about spectroscopy could monitor disease. of the more obscure subject when his galvanized. "Sorry the page at me," object of his interest showing how the spectrum generated from one suffering from (a rare kidney disease that of a non-su-



David

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ease

Sciences, to establish himself as one of the University's premier scholars.

Wishart was only four years into his new academic posting when his current project took wing, and he has no difficulty recalling the seminal moment to which the Human Metabolome Project owes its existence. It occurred as Wishart was preparing to deliver a guest lecture about how NMR spectroscopy could be used to diagnose or monitor disease. He was scanning some of the more obscure literature on the subject when his attention was suddenly galvanized. "Something just jumped off the page at me," he remembers. The object of his interest was an illustration showing how markedly the NMR spectrum generated from the blood of someone suffering from Fanconi's Syndrome (a rare kidney disorder) differed from that of a non-sufferer.

"It will change the way

that diagnostic testing is

done — and the way

that most clinical

chemistry is done."

"It was immediately obvious how different it was," says Wishart, who was struck so forcibly by the illustration because a close relative of his had just been diagnosed with that very syndrome — but only after a decade of "bizarre tests and treatments.

"That got the wheels turning," says Wishart, who began thinking about the exciting opportunities for using NMR spectroscopy, with which he was extremely familiar, for disease diagnosis and monitoring. Ironically, the Human Metabolome Project that has resulted owes as much to what Wishart, with his broad and extensive scientific background, didn't know as to what he did.

"In our naivety of how it was supposed to be done, we started dealing with spectra differently," he says. While other labs interested in the NMR spectra of biofluids were looking at the spectra simply as amorphous shapes to be compared one to another, Wishart took his lab in another direction. "Our concept was 'let's figure out what every single peak represents' — we didn't know that you weren't supposed to do it that way."

David, the Goliath

Bearded, and, as often as not, wearing a baseball cap, David Wishart is not your typical university professor — and not just because of his headgear.

While most professors only work within a single department, Wishart has appointments in three academic units: the Faculty of Pharmacy and Pharmaceutical Sciences, where he holds the Bristol Myers Squibb chair in protein chemistry, as well as the Departments of Biological Sciences and Computing Science. In addition, reflecting his interest in developing bionano devices, he has a cross appointment with the National Institute of Nanotechnology.

Wishart, whose background includes work in protein engineering and NMR spectroscopy, has an "incredible depth and breadth" of scientific interests, says the chair of the Department of Computing Science, Jonathan Schaeffer.

"We're privileged and honoured to have David as a member of our department."

Since 1990 Wishart has published nearly 100 papers and book chapters, and presented more than 60 abstracts at scientific conferences. His discoveries concerning NMR chemical shift made him one of the most cited Canadian scientists of the past decade. Schaeffer says that he previously knew of Wishart's "prodigious publication record," but when he looked more closely at where Wishart was publishing he was "absolutely stunned."

"The journals in which he was publishing were the very cream of the crop," he says. "And David has had multiple publications in these world-class journals year after year. It's amazing — for most scientists a single paper in one of these premier publications represents five or 10 years of work."

Wishart, whose running start to his career has been recognized with prestigious awards from both the American Association for the Advancement of Science and the Astra-Zeneca pharmaceutical company, is the founder of two U of A spin-off companies. The first, BioTools Inc., started life as a bioinformatics undertaking but now markets Poker Academy — described as "the world's leading Texas Holdem poker training software," it is based on artificial intelligence work done at the U of A by Schaeffer and others. The second company, Chenomx Inc., was created to commercialize his breakthroughs related to metabolomics.

Despite his many other endeavours — including founding and directing the Human Metabolome Project — Wishart somehow also found time to co-found the Canadian Bioinformatics Workshop, a national bioinformatics training program in operation since 1999, and still serves as its help desk director. In addition, for the past three years he has been chair of the Canadian Proteomics Initiative conference. And if you think all this couldn't possibly leave him time to have a life outside of work, you'd be wrong. He's also married and the father of two children, ages eight and 10.

To enable his approach, Wishart devised some novel techniques that led to two patents and a spin-off company named Chenomx Inc., which exploits those techniques to develop software for NMR analysis of complex mixtures for broad application in life science technologies.

Once Wishart had the tools in place to dissect the spectra, identifying the compounds present and their quantity, he was faced with filling a massive void: there simply wasn't a good library of all the small molecules that might be encountered in human biological fluids or cells. "It was like trying to put together a jigsaw puzzle with pieces missing," he says. "The analogy would be a puzzle of 1,000 pieces missing 800."

The Human Metabolome Project is the attempt to find all those missing pieces and finally put the puzzle together into a coherent image. In many ways it parallels the Human Genome Project, which was completed in a sort of first draft form in 2001 and finalized in 2003. That project was tasked with determining the sequence of all of the genes and all of the chromosomes in a human cell. That took about 12 years to do and cost almost a billion dollars.

While the Human Metabolome project, which was launched in 2005, is a much more modest undertaking—its budget is nowhere near a billion dollars—it has the potential to change the way medicine is done. Testing for small molecules—in blood and urine particularly—is already an important part of medicine, but currently doctors rely on a small set of tests that focus on less than two dozen molecules. "What metabolomics promises," says Wishart, "is a list of some 2,500 molecules and the technology to potentially measure maybe 300 or 400 of those all at once." And the testing, he adds, would be much, much faster and much less expensive—costing only pennies and done with a handheld device in the doctor's office. "It will change the way that diagnostic testing is done—and the way that most clinical chemistry is done."

*"We are really building
the foundation for future
research. We've been really
quiet about this. People
have been working on
individual aspects, but now
it's beginning to come
together. It's an exciting
time for us."*

The intention of the Human Metabolome Project is to provide the tools that will enable that change to take place. "What we want to do is provide the Rosetta Stone for the future of metabolomics. We want to say 'These are the compounds that are part of your body. Here's our parts list. Here are the instructions. Here's how they work. Here's how they relate to disease. Here's how they relate to genetics.'"

While the Human Genome Project was a worldwide effort, the Human Metabolome Project is entirely based in Alberta. Other research groups around the world are interested in metabolomics, but what is happening in Alberta is unique. "We planted the flag in the ground first," explains Wishart, "and others are letting us finish."

Wishart, who acts as project leader, is one of nine principal investigators involved in the project. In addition to Wishart, seven others come from the University of Alberta—**Brian Sykes**, '65 BSc, (Biochemistry), Russ Greiner

(Computing Science), Fiona Bamforth (Clinical Chemistry), Derrick Clive (Chemistry), Liang Li (Chemistry), Mike Ellison (Biochemistry) and Tom Marrie (Medicine)—and biochemist Hans Vogel contributes NMR spectroscopy expertise from the University of Calgary.

Another 30 individuals work on various aspects of the project, including project manager **Lori Querengesser**, '86 BSc(MedLabSci), '00 MBA, who chuckles as she describes the small office she shares with Wishart's assistant **Treana Neufeld**, '98 BEd, as the "nerve centre" of the Human Metabolome Project. The project has a very small physical footprint—this small office in the south wing of Athabasca Hall, ordinary in every way, is pretty much it—making use of existing facilities and primarily functioning as a virtual entity.

Querengesser has recently returned from a metabolomics gathering in Boston and is clearly pleased by the buzz that the work being done in Alberta is causing. "It's really neat that the U of A is the centre for such a huge project, not only one of the largest metabolomics undertakings anywhere, but also the broadest in scope. It's recognized as a good long-term project that needs to be done."

"We are really building the foundation for future research," she adds. "We've been really quiet about this. People have been working on individual aspects, but now it's beginning to come together. It's an exciting time for us."

Querengesser has a particular interest in the bioinformatics tools that are being developed to facilitate the project. (Bioinformatics is the use of techniques from disciplines such as mathematics, statistics and computer science to solve biological problems.) Among these tools is a program called Biospider, which has been used to search the Internet and bring back any data it finds about metabolites.

According to Wishart, the study of small molecules was where biochemistry began and as long ago as the beginning of the 20th century people were writing

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SUMMER 2006

alumni*news*

FACULTY OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS ANNUAL NEWSLETTER

Thirty years later...

Kirsten Kotelko follows in the
footsteps of her father Bern Kotelko

When Kirsten Kotelko decided to get a BSc in Agricultural/Food Business Management from the University of Alberta ('06), she knew she had some big boots to fill. Thirty years earlier her father, Bern, earned his BSc in Agriculture and went on to have an award-winning career in the cattle industry, garnering a National Environmental Stewardship Award and an Alberta Cattle Commission Environmental Stewardship award, among others.

Bern Kotelko believes his education was "very important" to his present day success, and he is thrilled that

Kirsten has followed in his footsteps. A pioneer in the cattle industry in Alberta, Bern Kotelko co-owns Highland Feeders in Vegreville and is co-founder of the Highland Alberta Beef Alliance.

In addition, Bern was involved in the development of a technology called IMUS (Integrated Manure Utilization System) which transforms harvested manure into electricity, producing bio-based fertilizer and reusable water in the process.

According to Kirsten, the message that "a university education is important to take the skills to further agriculture and grow it into a business, rather than just

a farm" originated with her grandparents. Under her father's leadership, Highland Feeders has indeed grown, and is currently the 6th largest feedlot in Canada, with a standing capacity of 36,000 head.

Now that Kirsten has graduated, it's her turn to contribute. She is excited to be putting the skills and discipline she acquired at university to work for the family business, where she is in charge of developing the Spring Creek Ranch brand, a line of natural beef products. "I'm very proud of my dad and happy to be working with him" Kirsten says, "and I'm proud of the values of our business" ■

By Vanessa Hughes

www.springcreek.ca



DEAN'S MESSAGE

I want to extend my warmest greetings to our alumni family members and welcome you to our newly designed alumni newsletter. Just as our Faculty continues to evolve so too does our desire to strengthen our connections



with our alumni. In response to your comments, we are focusing our alumni communications on connecting our Faculty with you and you with each other. To complement our print newsletter,

we are now "publishing" a quarterly electronic alumni newsletter. I hope you enjoy our new format!

As alumni of our Faculty, you are forever woven into the rich history that is the University of Alberta. You may have entered our faculty as an undergraduate student straight out of high school, transferred from another post-secondary program, or moved to Edmonton midway through a career to begin a

graduate research program. Whatever your personal background, learning experiences and achievements at the U of A, you are part of a family that works and lives in every corner of the world. I am continually amazed by our alumni who, through careers and everyday lives, provide opportunities for individuals and strengthen families and communities. You are models for our students to follow.

With a renewed commitment to connect with our alumni, I am excited that our alumni newsletter will reflect your lives – interesting stories, accomplishments, milestones – and I encourage you to share your experiences with us. Any one of our External Relations staff would be happy to hear from you so we can include your stories and class notes in upcoming issues of our alumni newsletter.

I invite you to take time from your busy lives to enjoy the stories about your fellow alumni in the following pages. I hope you are pleased with our communication initiatives and welcome your comments on our new alumni newsletter.

John J. Kennelly

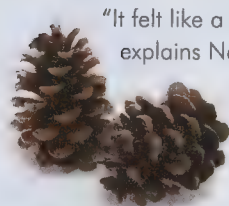
alumni news

SUMMER 2006

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Trail of Opportunity

When he enrolled at the U of A at "the ripe age of 18 or 19" in 1972, the energy crisis was in full boom, and Craig Neeser (BSc Forest Management '76), who entered school leaning towards science or engineering, thought that the University's brand new Forestry degree could provide a fresh path through the often uncertain world of non-renewable resources.



"It felt like a renewable thing," explains Neeser of his decision to pursue a degree in the field. "It wasn't the wild desire to chase bears around the

woods; it seemed like a good renewable opportunity."

It certainly proved to be a lucrative road for Neeser, who today holds the position of senior vice-president for Weyerhaeuser Canada, but seeing as how he was hoping to avoid the many headaches of the energy sector, it turned out to be a rather bumpy ride.

"There's no question that the forestry industry has turned out to be a very difficult industry," Neeser admits.

Weyerhaeuser obtained MacMillan Bloedel, where Neeser had been working

in a number of capacities, in 1999; the company made headlines in the '90s over some heated land claims disputes with B.C. First

Nations groups. Working on relations with such communities is still part and parcel of Neeser's job today, as is the ongoing softwood lumber dispute with the United States.

"It's certainly been a long and difficult challenge, no question," Neeser says ►



**Craig Neeser,
BSc Forest
Management '76**

Mom's the Word



Sweet Momma will be the first of its kind in North America according to business owner Jolene Ali, '05 MBA/MAG and will provide modern moms-to-be with a full range of services and products throughout their pregnancies.

Originally the brain child of Ali and two of her classmates, Melanie Bowbell and Zenita Dhalla, it was Ali who turned the ideas on paper into a business she believes will occupy a unique niche in the marketplace.

The services being provided by Sweet Momma will include: comprehensive nutritional analysis guided by a registered dietician, massage therapy specializing in pregnancy for drug-free pain relief and relaxation, an acupuncturist specializing in fertility and pregnancy, professional organic spa services, and pregnancy-specific retail products.

With so many services being offered on site, Ali has had to find big premises - 2,113 square feet to be precise.

Choosing a catchy name was just one of the many challenges faced by the enthusiastic Ali who says she was looking for names that would really appeal to the demographic she has set out to target with the business. The target demographic she identified is Generation Y, a market Ali says is bigger than the baby boomers and is the largest generational segment in the history of North America.

For 29-year-old Ali, who does not have children yet, Sweet Momma will provide exactly the kinds of services she would like to have available when she does eventually start a family. "It's been kind of scary but I have done the research and know that my demographic are the kind of people who are very focused on a healthy pregnancy," says Ali.

Opening her first store in Edmonton was also a strategic decision says Ali as the province has the youngest and fastest growing population in Canada.

Ali believes her new business venture has three competitive advantages; it will serve as an integrated service centre focusing exclusively on pregnant women, provide personalized service through information and instruction specific to each individual, and provide an opportunity to interact with others in a similar situation.

Highly-trained, full-time specialists will also be on-site to provide specific services. To make sure everything at Sweet Momma is up to date and in line with professional standards, Ali has also established two advisory boards - a health professional board and a business board to guide the direction of the company.

And, as if she did not have enough on her plate already, Ali has also been working on a supplement line for pregnant women that will launch in early 2007. Using her background



What began as an Alberta School of Business MBA assignment for a new venture creation class has been turned into a real business that opened its doors in south Edmonton on July 1, 2006.

in agriculture and with a tremendous amount of support from her professors in the Department of Agricultural, Food and Nutritional Sciences, Ali put together a preliminary formulation of what she thought would make up a really good supplement. The supplement company is a separate company from Sweet Momma named Vyant Inc.

To achieve all of this Ali has also had to work incredibly hard to attract investors to her new businesses and create an effective web site she says is integral to her marketing strategy.

"It has been a lot of fun putting this all together," says Ali. "And it is much easier to do something scary when you have a wonderful group of supporters standing behind you," she adds. ■

By Wanda Vivequin

of the latter issue. "One of constant negotiation. The governments have put together a package that they're recommending, but industry still views it difficult to accept in its current state. It's in the works as we speak."

Still, with as many, if not more, downs than ups, Neeser maintains that he

wouldn't change his career direction provided the chance to do it all over again, tracing the good times back to the U of A, be it at spring forestry camp or hanging around in the pub at SUB with friends who he still keeps in touch with.

"I've been fortunate to have been in an industry that's made up of some really

great people, I've had a terrific 30 years and wouldn't change it for anything. I talk about the people I work with to friends in other industries. They have good integrity, they do what they say they're going to do. I've been really, really lucky with a lot of opportunities that have been put in front of me." ■

By Zoltan Varadi



A month or so before her death, Chelsy Lynn Shillington had a discussion with her father, Ed, about what were the best ways to make a difference in tackling environmental issues. "I tried to convince her that she could do more working from the inside than from the outside," explains Ed Shillington, an environmental engineer, who has spent much of his career focusing on water and sewage treatment. But Chelsy—fired by youthful idealism—insisted she would never work for a larger company. Instead, Chelsy, who was frequently at the centre of public protest movements, told her father that she would try to change the world as an environmental activist.

During that seminal conversation, Ed recalls that his daughter was doing as much listening as talking; she was beginning to see the overall picture. "She was very smart: she was beginning to understand that it would take time, that you can't change the world in a decade."

Tragically, Chelsy died in a car accident

Remembering a remarkable U of A student by establishing awards in her name

in April 2006, while returning from a ski trip in British Columbia. A bright and gregarious 24-year-old woman, Chelsy had completed her Bachelor of Science Degree specializing in conservation biology at the University of Alberta in December 2005. She would have convocated from the Faculty of Agriculture, Forestry, and Home Economics in June 2006.

Her mother, Janet, said after her daughter's death, the family discussed how they could be true to Chelsy's passion for the environment, so that her passion would live on. Establishing awards in her name, so that others could benefit and go on to help others, seemed like an appropriate way of doing that, she explains.

"We were looking for something to make some sense of this, so that something good would come of it."

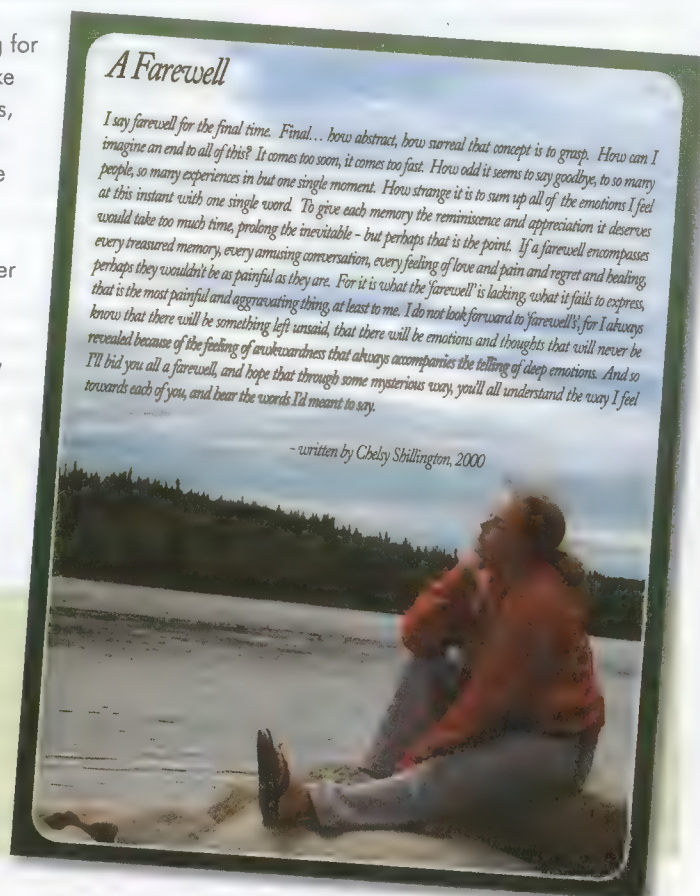
To memorialize her life in perpetuity, her family, friends and the University of Alberta created the Chelsy Shillington Memorial Leadership

Award, the Chelsy Shillington Memorial Leadership Entrance Award and the Chelsy Shillington Memorial Field School Bursary. Family and friends are hopeful that the recipients of these awards will work towards Chelsy's or similar goals.

"Chelsy's time with us was too brief, but we hope that those students who receive the Chelsy Shillington Awards year after year will come to live their lives the way Chelsy would have—to the fullest," says Faculty of Agriculture, Forestry, and Home Economics Dean John Kennelly.

Indeed, it's almost trite to say Chelsy lived life to the fullest. She served on the University Students' Union, volunteered ▶

Chelsy Shillington would have convocated with a Bachelor of Science Degree specializing in conservation biology in June/06



with environmental organizations such as the Sierra Youth Coalition, Biofreedom and got involved with Amnesty International. Chelsy was passionate about saving the forests, eliminating genetically modified foods and making the world a more environmentally friendly place.

She was a citizen of the world, traveling and living in Canada, the United States, Austria and Australia. Those experiences, particularly her time in Australia, deepened her love for the grandeur of the world. She exemplified the motto: think globally, act locally.

"As a youth, she used to tax us," says Janet. "She was strong-willed and when she determined who the underdog was, she would typically side with

them." It was particularly challenging when Chelsy returned from university in Australia to live at home with her parents and finish her degree. "I had to remind her that I'm the mom and I do the lecturing and you're the daughter," Janet says affectionately.

Janet was exceptionally pleased to learn that Chelsy had gotten involved with the U of A Dance Club and the salsa dance club. It was a counterbalance to her more serious activities, explains her mother. "I did remind her that you only live once and you have to have some fun along the way."

Her fun included swimming, outdoor activities and singing with choirs. She composed piano music and wrote poetry and stories. After her death,

her mother found a piece Chelsy had written in Grade 9, essentially a conversation about why it's important to leave the world a better place and the importance of remaining true to one's self. Chelsy was a gifted writer.

Janet can't really pinpoint where that energetic spark her daughter had came from. But from the moment she could walk, her daughter—possessed of an innate curiosity about the natural world—enjoyed flowers and gardening. "You would find her outside playing in the rain."

At a celebration of life service to commemorate her life, 500 spruce seedlings were given out to remind everyone of Chelsy's desire to make the world a better place to live. ■

By Michael Robb



Bar None 60th anniversary

It sounds like one of those impossible mathematics riddles: Reg Norby's daughter Carolyn is 28 and has been to 30 Bar None parties. This year she'll celebrate the 60th Bar None dance, which is in its 59th year.

Truth is, it's easily explained: Jane Norby was pregnant with Carolyn for her first Bar None fundraiser; and the wildly popular event was held twice in 1981-82 when it moved from the last dance of the school year to one of the first.

Stranger things have happened in Bar None history. During its early days Bar None was promoted heavily in the week leading up to the event. A branch of the Bank of Montreal located where Earl's restaurant now stands allowed students to stage mock hold-ups on horseback to raise awareness of the event.

"I doubt anyone would go for that sort of thing now," says Norby (Ag '69) a retired economics professor who has attended every Bar None dance since

he entered the U of A in 1966. Student promoters also rode on horseback into the Lister Hall cafeteria and the lobby of the Education building – stunts the university administration might be less tolerant of today.

The last on-campus event was held at the Clare Drake arena, where a band performed on a stage erected atop the timekeeper and penalty boxes. Attendance was 5,900, capacity at the arena was 3,850. The following year, 1971, was the first year the dance was held off campus – at the Kinsmen Field House.

It wasn't until a decade later that the event was held with a liquor license – until then, it had been a "dry" dance. Norby says some people were confused, thinking 'Bar None' meant there was no bar at the party.

"But 'Bar None' means that everybody is welcome and of course the brand



is a bar and a zero, which means Bar None," he said.

Profits from the event have always gone to philanthropic initiatives and today, the Bar None Endowment Fund goal is to reach \$1 million by 2010. In 2006, the Ag Club created a Bar None Scholarship in honour of former Dean, Ian Morrison. The \$24,000 donation brought the Bar None Endowment Fund to a whopping \$850,000, a full 2 years ahead of schedule. With continued contributions from alumni, we expect to celebrate the \$1 million mark as part of the U of A 100th anniversary in 2008. ■

By Richard Cairney

alumni council

There has never been a better time to become an active alumni!

Over the past two years I have had the privilege to be your representative on Alumni Council. Council's vision is to facilitate an enriching lifelong connection between you - our alumni - and the University of Alberta. To fulfill this vision we as alumni need to be actively involved with our alma mater, and never has there been a better time to do so than now.

In 2008, the University of Alberta will celebrate its centenary. In preparation for this great milestone, Alumni Council has formed the 'Alumni Council 2008 Centenary Committee' chaired by Jim Hole (BSc Ag '79). This committee has been given the task of developing a plan on how we as alumni can contribute to this year long celebration and they are looking for ideas from you, our alumni.

If you would like to get involved or have any ideas that you would like to share please contact Susan Peirce, Director of Alumni Affairs at: alumni@ualberta.ca

Phone: (780) 492-3224 or toll-free in Canada and the US at 1-800-661-2593.



Alumni Council Rep
Tammy Oberik, Home Ec '82



Classnotes



Please let us know where life has taken you.

Name: _____

Phone: _____

Street: _____

City: _____

Prov/State: _____ Postal code: _____

Fax: _____

E-mail: _____

Class Note: _____

Email to myrna.snart@ualberta.ca

Mailto:

Myrna Snart

2-14 Agriculture-Forestry Centre

Faculty of Agriculture, Forestry, and Home Economics

University of Alberta

Edmonton, AB T6G 2P5

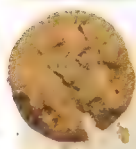
Without you, the world would be

naked, thirsty, hungry & homeless

As Bachelor of Science graduates, you are among the ranks of professionals who are finding creative ways to solve real-world problems. Take pride in knowing that without you and your colleagues - professional foresters, professional agrologists, professional biologists, professional food scientists, registered dietitians and professional human ecologists - we would all be naked, thirsty, hungry and homeless.

Without you, we'd be naked

Our clothes are our daily uniform, saying as much about what we do as who we are. **Human Ecology** alumni design clothes, test textiles and create new uses for familiar materials. Grads understand issues like marketing, international development and the importance of new products. Those keen on science and engineering have designed ways to make fabric that won't collect a static charge and is heat resistant. Using chemistry, nano-technology and common sense, **Human Ecologists** are designing clothing and fabrics that will protect our military, fire fighters and oil & gas workers as well as being comfortable and functional.



Without you, we'd be hungry

Anyone who eats has a vested interest in the food industry. Agronomists are the group that grow our groceries. **Agriculture** alumni are solving problems in sustainable food production. They ensure that we have safe meat, grains and vegetables to eat for generations to come. **Nutrition and Food Science** alumni package and distribute food safely while also creating, marketing and distributing new foods that meet consumer demands. **Registered Dietitians** use food and nutrition for disease treatment and prevention and to maintain community health.



Without you, we'd be homeless

People need a place to live. Our homes are both the structures we live in and the communities and people around us. As long as we continue to build our homes using wood products, **Forestry** alumni will make sure we have the trees to meet that need as well as a balance of land that is preserved

and protected. **Human Ecology** alumni understand the family and community relationships that impact us all and work within government and with not-for-profit agencies to ensure that the realities of those relationships are realized in programs and policies. For the first time in the world, U of A Human Ecologists are leading the way in discovering new ways to measure the value of contributions of elderly and

Without you, we'd be thirsty



Water is the most vital element on earth and keeps people, animals and plants quenched. **Environmental and Conservation Science** alumni help industry and individuals use their water resources and governments to plan for future water needs. Our **Agriculture** alumni grow and manage crops (like barley and grapes) that contribute to a burgeoning beverage industry. **Nutrition and Food Science** alumni have mastered the science of microbiology that makes sure our brews and fermentations are tasty and safe. **Agricultural/Food Business Management** alumni develop and manage agri-business models within the food and beverage industry. **Forestry and Forest Business Management** alumni protect our waterways as a key part of sustainable forest management, even measuring how water quality is impacted by forest fires or learning how trees cope with drought and climate change.

"dependent" people. **Environmental and Conservation Science** alumni understand forest and wild land ecology and the need for environmentally sustainable agriculture that ensures we all have healthy homes - whether it's the forest floor, alpine meadows, riparian areas, grasslands or tree tops - generation after generation.

Weaving together fabric, history and art

All puns intended, for Marianne Scott, graduate of the U of A's Clothing and Textiles program (BSc HEc'68), her alma mater continues to be an integral piece of the fabric of her life.

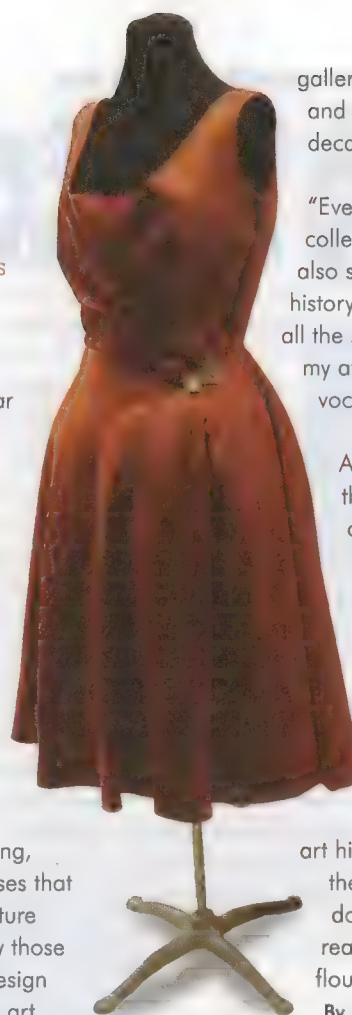
"My mother went to the U of A, and my husband and children are all graduates," says Scott, proprietor of Edmonton's Scott Gallery. "I've always felt that the U of A is part of my family heritage."

As such, Scott contributes regularly to the Historic Costume and Textile Collection Fund in the Department of Human Ecology.

"It's just fascinating to go through and see the various types of work and have the opportunity to actually handle pieces," she says of the collection. "It gives you an insight into how people lived in previous generations or centuries. I think it's wonderful and important to have a collection like that here in Western

Canada, and in particular in Edmonton."

Following her graduation, Scott worked in a wide variety of fields, from being a buyer for Eaton's in Toronto to doing kitchen space planning and design to helping the post of executive director for a volunteer centre here in Edmonton. But all along, she says, thanks to courses that "opened my mind" to future possibilities - particularly those in art, art history, and design - the foundations for the art



gallery which she has owned and operated for the past decade began to gel.

"Ever since University, I have collected art, and that was also something one of my art history professors encouraged all the students to collect. So my avocation became my vocation."

And, once again, the thread has come full circle, with Scott providing patronage to a collection she feels is not only important to Albertans, but which also weaves her most avowed interests together.

"When you combine [my interest in art and art history] together and see the excellent work they're doing in the collection, I'd really like to see it grow and flourish." ■

By Zoltan Varadi

Faculty of Agriculture, Forestry, and Home Economics

I want to support the Faculty of Agriculture,
Forestry, and Home Economics with a gift of

☐ \$50 ☐ \$100 ☐ \$500 ☐ \$1,000 ☐ Other amt. \$ _____

☐ Cheque payable to the University of Alberta

☐ VISA ☐ Mastercard

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Name (please print) _____

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I would like my gift to support:

\$ Faculty Scholarship and Bursary Fund

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2006 ALUMNI RECOGNITION AWARDS

*Celebrating the achievements of
University of Alberta alumni*

University of Alberta alumni bring honour to themselves and their alma mater in a multitude of ways — through leadership in their professions, business and government, groundbreaking advances in science and medicine, accomplishments in athletics and the arts, and service to the global and local communities.

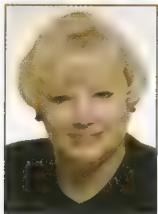
Presented in four categories, the Alumni Recognition Awards celebrate the many diverse accomplishments of alumni and the recognition they bring to the University.



UNIVERSITY OF
ALBERTA

ALUMNI HONOUR AWARD

Recognizing the significant contributions made over a number of years by University of Alberta alumni in their local communities and beyond.



Loraine R. Altenweg,

'75 BCom, is the financial officer of the Alberta Cancer Foundation. A well-respected chartered accountant, she has been a long-standing board member and chair of the audit committees on several publicly traded companies and Capital City Savings Credit Union. Recently, she was appointed to the University of Alberta Audit Committee. In recognition of her excellence and commitment to the accounting profession and the business community, the Institute of Chartered Accountants of Alberta honoured her with a 2006 Distinguished Service Award.



Genevieve C. Balogun,

'75 BLS, has been honoured with many distinctions for her work in promoting multiculturalism and stopping racism. Affectionately known by her students as Mrs. B., she has been an educator with the Calgary Board of Education for more than 30 years and is currently a community liaison for the Terry Fox Family of Schools. In the community, she works with many organizations, including the Alberta Association for Multicultural Education. She is also one of two community leaders designated as 'Visionaries' for the Diversity & Inclusion Initiative of the Calgary Foundation's Forever Funds.



Bruce Coggles, '72 BEd, '75 BA, the principal of Edmonton's Jasper Place High School, is an innovative educator and administrator who works tirelessly to support his staff and students. He demonstrates exemplary leadership and collaborates with staff to provide extensive programming for students of all learning abilities. An expert in school management systems in the United States described Coggles as the perfect entrepreneurial principal and Jasper Place as a Swiss watch of high schools. Jasper Place was also named Canada's top overall high school by *Maclean's* magazine in 2005.

onstrates exemplary leadership and collaborates with staff to provide extensive programming for students of all learning abilities. An expert in school management systems in the United States described Coggles as the perfect entrepreneurial principal and Jasper Place as a Swiss watch of high schools. Jasper Place was also named Canada's top overall high school by *Maclean's* magazine in 2005.



Eugene J. Creighton, '85 LLB, a member of the Blood Tribe, is a partner with Walsh Wilkins Creighton LLP. An expert in Aboriginal law, he acts as counsel for a number of First Nations organizations.

He is highly regarded for educating non-Aboriginal lawyers about First Nations people, and he has taught at the University of Lethbridge and Red Crow Community College on Aboriginal issues. He received the 1999-2000 Deputy Minister's Award for Economic Development for his work on the Blood Tribe Irrigation Project, and in 2005 he received the Alberta Aboriginal Role Model Award for his mentoring of Aboriginal lawyers in his firm.



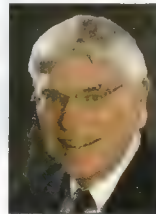
Jean-Michel Cr  pin, '77 BSc(Ag), is an internationally respected agrologist and a quintessential entrepreneur. He was the founder, president, and CEO of Norwest Labs, Western Canada's largest

agricultural and environmental laboratory. He is a partner in an agri-food laboratory in Hong Kong, a consultant for a U.K. public corporation, and part of a study group led by professors from the University of London, MIT, and Stanford University. He also serves as director of the Canadian Council of Independent Laboratories. In 1995, he received the Distinguished Agrologist Award for his contributions to the profession.



Christopher Charles Stuart Donaldson, '68 BA, is a recognized expert in surface electromyography (SEMG), chronic pain, and fibromyalgia. He is the co-founder of Electromyographic Back

Rehabilitation Services, a private clinic specializing in the treatment of chronic maladies. In 1995, he received the *American Journal of Pain Management* award entitled the Outstanding Contribution to the Interdisciplinary Pain Management Literature for his work on SEMG, headaches, and neck pain. He is an adjunct associate professor at the University of Calgary, and he lectures extensively throughout North America.



Allen R. Hagerman, '73 BCom, the chief financial officer of the Canadian Oil Sands Trust, has brought much credit to his profession during his long-standing career. A strong community supporter, he has

served on many organizations, including the board of governors of the University of Calgary, various Calgary Exhibition & Stampede committees, and as past chair of the Alberta Children's Hospital Foundation. In recognition of his contributions, he was recognized as a Fellow of the Institute of Chartered Accountants of Alberta and received the Institute's Distinguished Service Award in 2006.



Nat Indrapana, '73 PhD, is one of the top sports officials in Thailand. A distinguished member of the International Olympic Committee since 1990, he has dedicated his career to transforming sports

programs in Thailand. The former deputy governor of the Sports Authority of Thailand and dean of the Faculty of Physical Education at Thailand's Srinakharinwirot University, he is the vice-president of the World Taekwondo Federation and serves on the Coordination Commission of the XXIX Beijing Olympic Games.



Dennis M. Kadatz, '60 BPE, '61 Dip(Ed), '65 MA, has taken on a leadership role in Alberta's sports community as both an athlete and a builder. A respected coach and administrator, he served as director of

athletics and an associate dean of the physical education faculty at the University of Calgary. He served as general manager and president of the Calgary Olympic Development Association, recognized as one of the most successful post-Olympic organizations in the world. In 2005, he was inducted into the Alberta Sports Hall of Fame and is an inductee of both the University of Calgary Sports Hall of Fame and the University of Alberta Sports Wall of Fame.



Wallis Kendal, '69 BED, is an accomplished artist, author, and social activist who works tirelessly to help high-risk youth. In 1997, he co-founded the *iHuman* Youth Society, a non-profit organization in

Edmonton. Considered one of North America's best support groups, *iHuman* helps troubled teens find success and confidence through artistic programs. In 2005, the Canadian edition of *Time* magazine named him one of Canada's heroes in recognition of his innovative work with at-risk youth.



John R. Mackey, '90 MD, has earned international recognition for his clinical research in breast cancer and for his collaborative translation research studies in cancer therapeutics. He is a senior

medical oncologist at the Cross Cancer Institute and a professor in the Faculty of Medicine and Dentistry at the University of Alberta. He directs research in the Northern Alberta Breast Cancer Program, which has evolved into one of Canada's strongest cancer-site-specific teams, and he is the director of the Cancer International Research Group, an academic clinical trials organization.



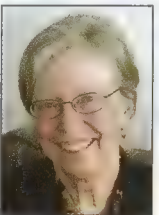
Ed Molstad, '67 BSc, '70 LLB, is an experienced trial lawyer with Parlee McLaws LLP dedicated to his profession and the community. He has served on many professional organizations and was president of the

Law Society of Alberta in 1993. He has acted as legal counsel for the Canadian Football League Players' Association since 1974 and recently received the CFL Commissioner's Award for outstanding contributions to the League. A Fellow of the American College of Trial Lawyers, he was appointed Honorary Chief of the Samson Cree Nation for his work on behalf of, and contributions to, the First Nations community.



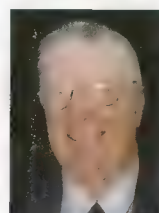
David W. J. Reid, '54 BSc, '56 MD, is highly regarded for his leadership role in post-secondary education and his devotion to his profession as an obstetrician and gynecologist. He was a co-

founder of the University of Alberta's Medical Project OSVITA, where he made fundamental contributions training physicians from the Ukraine following the Chernobyl disaster. He is esteemed for his talents in urban hospital design, and as a consultant he has been involved in design projects around the world. At the U of A, he is a clinical professor in medicine and an adjunct professor in education.



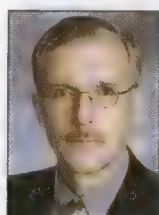
Barbara Rocchio, '61 Dip(Nu), '64 BSc(Nu), '88 MEd, is a dedicated nursing professional who has had a significant impact on health care delivery in Alberta. She has taken on a leadership role in nursing and

nursing management at the local, provincial, and national levels. As a mentor, teacher, and colleague she has had an immeasurable influence on thousands of nurses. In 2005, she received the Lifetime Achievement in Nursing Award by the College and Association of Registered Nurses of Alberta.



Bruce A. Roy, '59 BSc(Ag), was instrumental in building Alberta's reputation as a leader in the international world of Draft horses. A successful heavy horse breeder, he has had a major influence across

Canada in improving the market value of Canadian breeding stock. He was editor of *Percheron Broadcaster* for years before publishing his own magazine, *Feather and Fetlock*, which was bought by *Draft Horse Journal* in 2003, although he is still a contributing editor. In 2004, he received the Alberta Horse Industry's Distinguished Service Award for his contributions to the industry.



Fred H. Russell, '72 BSc(Eng), a building project director with PCL Construction Management Inc., has played a major role in many Edmonton projects. He was on the design and construction team for the Francis

Winspear Centre for Music and has been responsible for many University of Alberta projects. Highly respected as a mentor, his leadership skills have helped many young professionals and colleagues in the industry. He is a member of the Edmonton Construction Association Board and past president of the Association of Professional Engineers, Geologists, and Geophysicists of the NWT.



Ivor Ruste, '77 BCom, is a high-profiled chartered accountant in Alberta. He has taken on significant professional and volunteer roles, which have earned him many accolades and honours.

The former managing partner of KPMG LLP in Edmonton, he is vice-president of finance for EnCana Corporation in Calgary. In addition to his professional responsibilities, he has been extensively involved with the University of Alberta, serving on its board of governors and alumni council, and with the community, as a member of the Support Network and the United Way Capital Campaign.

ALUMNI HONOUR AWARD CONTINUED



Donald P. Schurman, '79 MHSA, has made outstanding contributions to the field of health services in Canada. He served as president and CEO of the University of Alberta Hospital, QE II Health

Sciences Centre in Halifax, and the Alberta Mental Health Board. He was also the founding CEO of both the Institute of Pharmaco-Economics and the Canadian Patient Safety Institute. One of the co-founders of TkMC, which is now part of Sierra Systems Consultants, he is an associate partner with the Edmonton office of Sierra Systems. In addition to serving on the boards of two publicly listed companies and one private, he also serves on many health care and community boards.



Pawan K. Singal, '74 PhD, is a world-renowned physiologist and researcher respected for his contributions to his field and for his dedication to his community. Considered a leading authority on the role of

free-radicals in heart failure, he has discovered a patent-pending formula that may help cancer patients taking the chemotherapy drug adriamycin. This physiology professor at the University of Manitoba has authored more than 200 original research papers and co-edited more than 20 books. In the community, he played a lead role in raising \$5 million to build a community centre in Winnipeg. He has received numerous national and international honours, including being named an Honorary Life President of the International Society for Adaptive Medicine and receiving the Mario Toppo Distinguished Scientist Award.



W. Ross Walker, '56 BCom, has more than 40 years of experience in management, accounting, and finance. During most of his career, he was involved in senior management roles with

KPMG, serving as chair and CEO of KPMG Canada and as executive partner of KPMG International. In recognition of his contributions, he was named a Fellow of Chartered Accountants by the Ontario and Alberta Institutes of Chartered Accountants and awarded the Order of Outstanding Merit by the Ontario Institute. Currently, he is a board member of three corporations and chair of two.



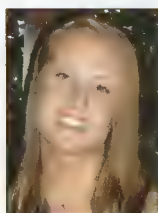
Darol J. Wigham, '53 BSc, **Evelyn G. Wigham, '53** BSc, are tireless supporters of the community and promoters of education. Highly regarded for their philanthropic work, the couple has established

several scholarships at the University of Alberta, the University of Calgary, and the University of Oregon. They also provide funding to the Wigham Collection of Children's Literature at the University of Lethbridge. Professionally, both worked in the oil and gas industry after graduating from the University. In 1990, Darol founded and is the president of his own private family company, Wigham Resources.



THE HONOURABLE DR. LOIS E. HOLE STUDENT SPIRIT AWARD

Celebrating student spirit and the many contributions students make to the betterment of the University community and beyond.



Melissa Paquette has made many contributions to the University of Alberta. As a physiology student in the science faculty, she was an active volunteer with the University's Undergraduate Physiology Student's Association, the Lister Hall Students' Association, and WISEST. After traveling to the Dominican Republic in 2004 with the International Student Volunteers (ISV) to help Haitian refugees, she co-founded a local U of A ISV Club. She returned to the Dominican this past summer to lead other student volunteers. Her future plans include becoming a doctor and continuing her work in impoverished countries.

ALUMNI AWARD OF EXCELLENCE



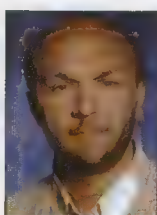
Donald G. Bishop, '61 BA, '62 LLB, is a leader in the legal community. In addition to serving as president of the Alberta Branch of the Canadian Bar Association, he served as president of the Law

Society of Alberta. He is the Honorary Consul for Sweden and was awarded the Royal Order of the Polar Star by the Swedish Government in 2003. An Honorary Life Member of the Legal Archives Society of Alberta, he is active in the community, helping fundraise for organizations such as the United Way, the CNIB, and the Alberta Cancer Foundation. In 2006, he received the Distinguished Service Award from the Law Society of Alberta and the Canadian Bar Association in recognition of his contributions to the legal profession.



Seokhee Cho, '86 PhD, is regarded as a pioneer of gifted education in the Asia-Pacific region. The director for the National Centre for Research on Gifted and Talented Education at the Korean

Education Development Institute, she is also the president of the Asia-Pacific Federation of the World Council for Gifted and Talented Children. Through her innovative efforts in research, development, and training teachers, Korean gifted children have been able to be challenged to develop their creativity and many economically disadvantaged children have been accommodated within the educational system. She has also authored numerous research papers and journal articles. In recognition of her contributions, she was recently granted a National Decoration and was appointed to Korea's Presidential Advisory Committee for Educational Innovation—the youngest member to serve on this high-powered committee.



Terry (Taras) Danyluk, '91 BPE, '04 MA, is an award-winning head coach of the University's Golden Bears Men's Volleyball team. Under his guidance, the team has won two Canadian

Interuniversity Sport (CIS) National Championships and four Canada West titles. He has been named CIS and Canada West Coach of the Year three times, and he received the Faculty of Physical Education Coaching Award in 1997 and 2005. His dedication to the sport extends beyond the U of A. He is a program coordinator for Team Canada Junior Men's Volleyball and has served as an assistant coach for national and international teams. In 2005, his contributions to the sport as an athlete were recognized by his induction into the Alberta Volleyball Association Wall of Fame.



Melody Davidson, '86 BPE, was the head coach of Canada's 2006 Olympic gold-medal winning women's hockey team at the Winter Games in Turin, Italy. She is a tremendous role model for

all those who aspire to coach at the highest level in any sport and for all those determined to make lasting contributions to international competitions. A key member of Hockey Canada for many years, she has served in various coaching, scouting, and hockey development capacities. Currently, she is the general manager and head coach of Hockey Canada's Women's High Performance Program. She is highly respected for her support of the sport, including the development of coaches, and for generously donating her time to give back to the game.

Recognizing specific, outstanding accomplishments of University of Alberta graduates.



Jane Ash Poitras, '77 BSc, '83 BFA, is an internationally acclaimed visual artist whose work has been showcased in numerous solo and group exhibitions around the world. Her artwork is also found in

many private and public collections, including the National Gallery of Canada, the Brooklyn Museum, and in the art gallery at Columbia University, where she earned her master's degree in fine arts. She is a long-standing sessional instructor with the University of Alberta and a highly sought-after guest lecturer across North America. She is respected for her generous support of numerous causes in both the Aboriginal community and the community at large. She has received numerous honours, most recently the prestigious 2006 National Aboriginal Achievement Award for Arts and Culture.

ALUMNI HORIZON AWARD

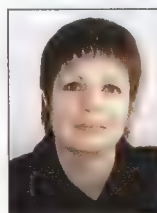
Recognizing the outstanding achievements of University of Alberta alumni early in their careers.



Kelly Chichak, '94 BSc, '02 PhD, was part of the science team that made a landmark breakthrough that will go down in the history of chemistry as a milestone in chemical synthesis. As a post-doctoral scholar with the internationally renowned Stoddart Research Group at UCLA, he achieved what many research groups around the world were trying to accomplish—making a mechanically interlocked compound whose three macrocyclic components have the same spatial properties as the Borromean rings. This discovery was published in the May 2004 issue of *Science* and was part of the cover story in the December 2004 issue of *C&E News*, which highlighted the discovery as one of the top achievements in supramolecular chemistry that year. He is a recipient of UCLA's 2006 Amgen Postdoctoral Award and a Research Excellence Award. He is now a research scientist with General Electric Global Research in New York.



Pernille M.K. Ironside, '95 BCom, is a passionate humanitarian dedicated to improving the lives of people in conflict-affected areas. A graduate of Osgoode Hall Law School and Columbia University School of Law, where she earned a master's of law, she has focused her energies on international human rights and justice issues. She has worked with the United Nations Office for the Coordination of Humanitarian Affairs and UNICEF in New York, where she helped launch major initiatives to improve the protection of civilians and monitoring of child rights violations in areas of armed conflict. She is now working as a child protection adviser with the UN Peacekeeping Mission in the Democratic Republic of Congo, based in the volatile eastern region.



Patricia Marck, '80 BSc(Nu), '91 MNu, '00 PhD, is quickly earning an international reputation for her innovative academic work (www.nursing.ualberta.ca/SaferSystems/). In a joint appointment with Capital Health's Royal Alexandra Hospital and the University of Alberta's Faculty of Nursing, she is the first researcher to apply principles from the field of ecological restoration (the study and repair of damaged ecosystems) to researching health care safety. Using photographic research and other participatory methods, she works with students, practitioners, and administrators to study and strengthen medication safety and other aspects of care. Partnering with the Canadian Patient Safety Institute and Canadian Health Services Research Foundation Chair Jan Lander, she also exposes undergraduate and graduate students to a range of related local and national safety research initiatives.



Jasmine Nahhas di Florio, '94 BA, is using her talents and legal know-how to help empower women and youth in developing nations around the world. A Rhodes Scholar and master's of law graduate from Harvard University, she has worked with the U.S. Treasury Department and with an international law firm in New York. In 2002, she left the corporate world to champion international community building and development. Currently, she is the vice-president of the Education for Employment Foundation, helping to create job opportunities for those in Islamic countries. She is also the program manager for Afghan Women Leaders Connect, a special program of Rockefeller Philanthropy Advisors Inc. She has, in a very short time, amassed an impressive number of achievements and is highly respected for her commitment to social justice.



Robert J. Opp, '94 BA(AUC), has come a long way from his rural Claresholm, Alberta, roots. Now living in Rome, he is the assistant to the executive director of the United Nations World Food Program (WFP) — the world's largest humanitarian agency. He is part of the small team that manages WFP's global operations. His career with the UN began in war-torn Angola, and he has worked in several other countries in both Africa and Latin America. He credits the Rural Development Exchange program offered at the University of Alberta's Faculty of Augustana for giving him his first exposure to a Third World country. He earned his master's degree at the Norman Paterson School of International Affairs at Carleton University, where he received numerous honours and awards.

DISTINGUISHED ALUMNI AWARD

Recognizing the truly outstanding accomplishments of living U of A alumni who have earned national and international prominence as a result of their achievements.



Richard Siemens

John S. Colter, '45 BSc

One of North America's most prominent virologists, **John S. Colter** is recognized internationally as a key builder of biomedical sciences in Canada

Professor emeritus at the University of Alberta, John S. Colter has contributed significantly to Canada's standing as a leader in the field of biomedical sciences. A renowned virologist, he has made many fundamental discoveries, including his pioneering work on isolating infectious RNA from mammalian viruses.

As chair of the University's biochemistry department from 1961 to 1987, he is credited with building it into one of the best in North America. He succeeded in attracting top-flight young scientists to the department, which in the 1980s received more research funding than any other at the U of A. During his academic career, he

provided leadership to many research organizations, including the Medical Research Council of Canada and the National Cancer Institute of Canada, and was an associate editor of *Virology* from 1961 to 1988. After his retirement in 1987, he spent several years as scientific advisor to the president of the Alberta Heritage Foundation for Medical Research. Elected a Fellow of the Royal Society of Canada in 1973, he received an ASTech Award for Outstanding Contribution to the Alberta Science and Technology Community in 1995 and was awarded an Honorary Doctorate of Science from the University of Western Ontario in 1998.

Jong Pil Lee, '70 PhD

A celebrated educator, **Jong Pil Lee** is dedicated to mentoring students and teachers and to increasing the participation of minorities, women, and disabled students in mathematical sciences

Jong Pil Lee has been tireless in his efforts to improve the quality of mathematical education in the United States. A distinguished teaching professor at the State University of New York College at Old Westbury, he has demonstrated incredible initiative and determination in mentoring thousands of students and teachers in mathematics.

In 1987, he established the Long Island Mathematics Conference at Old Westbury, the largest one-day regional mathematics conference in the United States. Lee is the founder and project director of the Institute of Leadership Development for Teaching Mathematics and Technology, which has provided in-service training for hundreds of

teachers. In 1992, to help gifted students develop their creativity to their full potential, he founded the Institute of Creative Problem Solving, allowing 75 students in Grades 5 to 10 to attend sessions at Old Westbury, tuition free. In 1991, he founded the Long Island Mathematics Scholarship Foundation for Minority Students. In recognition of his commitment to education and mentoring, he was honoured in Washington with a prestigious 2005 U.S. Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring. He is also an inaugural inductee of the Long Island Mathematics Educators Hall of Fame.



E. Preston Manning, '64 BA

The founder of two national parties and the former leader of the opposition, E. Preston Manning changed the face of Canadian politics

The historical significance of Preston Manning's contributions to the political life of Canadians will be felt for generations to come. He was the founder of two new political parties, the Reform Party of Canada and the Canadian Reform Conservative Alliance—both of which gained official opposition status in Canada's parliament. Manning served as the Leader of the Opposition from 1997 to 2000, where his principled and ethical approach to the responsibilities of office earned him the respect of MPs on both sides of the House.

Since his retirement from Parliament in 2002,

Manning has remained dedicated to revitalizing democracy in the Western world. He is the author of two best-selling books, *The New Canada* and *Think Big*, and served as a senior fellow of the Canada West Foundation and as a distinguished visitor at both the University of Calgary and the University of Toronto. A senior fellow of the Fraser Institute and president and CEO of the Manning Centre for Building Democracy, he continues to write, speak, and teach on a variety of subjects. He has been awarded honorary doctorates from the University of Calgary and Tyndale University College.



Todd Duncan Photography

James Westvick Thorsell, '62 BSc

Internationally renowned for his work with UNESCO's World Heritage Committee, James Westvick Thorsell was an early pioneer of sustainable development and natural conservation

A leading international authority on conservation, James Westvick Thorsell has played a pivotal role in the preservation of numerous natural areas around the world. In his role as a senior IUCN (the World Conservation Union) adviser to UNESCO's World Heritage Committee, he evaluated more than 175 sites nominated for World Heritage listings, resulting in almost one million square kilometres of land and sea being protected under this prestigious convention. His field experience includes more than 600 protected areas in 90 countries, he has authored or co-authored more than 400 technical reports and publications, and he serves on many prominent boards, including those of the Charles

Darwin Foundation and the Nature Conservancy of Canada.

Thorsell's contributions to the global community are immeasurable, inspiring much work on protected areas in many countries. Early in his career, which included work as a planner, trainer and project manager in Canada, he was respected for his research and initiatives within Western Canada's national parks, particularly the initiative for the Great Divide Trail. In recognition of his contributions, he was elected a Fellow of the Royal Geographical Society (London) and received the Packard International Parks Merit Award from the World Commission on Protected Areas.



Nancy Knachtel

William Winspear, '54 BCom

William Winspear, whose generous commitment of time and money has benefited many communities, is in a philanthropic league of his own

One of North America's outstanding business leaders, William Winspear continues to strive for excellence as a volunteer and a philanthropist. After managing companies in Vancouver and Toronto, he moved to Dallas in 1975 to become president of Chaparral Steel, a company that under his leadership became known for its innovation in steel production. In 1985, he became president and CEO of Associated Materials, a building-supply manufacturer, with annual sales in excess of (US)\$500 million.

In both Canada and the United States, he is known for

his enthusiastic and generous support of the performing arts and arts education. As a past-president of the Dallas Opera Society, he remains active on this board and is a charter member of the Dallas Center for the Performing Arts Foundation. In 2002, he gave the largest private donation in the history of Dallas to help build the Dallas Center for the Performing Arts. In recognition of his commitment to the opera, symphony, and arts education, he received an Honorary Doctorate in Performing Arts from the University of North Texas in 2000.



© Gittings, 2006



All alumni are invited to Reunion 2006!

IT'S NOT TOO LATE TO REGISTER!

There is something for everyone.

From Thursday to Sunday we have planned activities to connect you back to your classmates and the University of Alberta. **Reconnect, reminisce and remember!**

Key Events

Thursday, September 28

Alumni Awards Ceremony and Reception

It's a night to celebrate outstanding alumni and their accomplishments!

Time: 5:30–8:30 p.m.; **Ceremony:** 5:30–6:45 p.m.

Place: Winspear Centre **Cost:** free

Friday, September 29

Faculty Friday

Various faculty open houses & special events

Saturday, September 30

Faculty Open Houses and Special Events

Campus Tours

Time: 11:00 a.m. – noon

Place: Meet outside Alumni Lounge, SUB

Cost: free

Lunchbox Lecture

featuring Dr. Bill Strean, Associate Professor and Certified Laughter Leader

Time: 12:15 – 1:00 p.m.

Place: Dinwoodie Lounge, SUB **Cost:** \$5.00/person

Empey Lecture

featuring award-winning Canadian designer Linda Lundström

Time: 1:00 – 3:30 p.m.

Place: Myer Horowitz Theatre, SUB **Cost:** Free

SATURDAY CONTINUED

Reunion Dinner

Sit with your classmates and enjoy the nostalgia of this evening celebration. This dinner is the marquee event of Reunion 2006—a celebration of the history of your alma mater and a chance to reunite yourself with long-lost classmates!

Time: Reception: 6:00 p.m.; **Dinner:** 7:15 p.m.

Place: Hall A, AgriCom, Northlands Park

Cost: \$45/person

Sunday, October 1

President's Breakfast

for those who graduated in 1956 or earlier.

This is your chance to meet President Indira Samarasekera and hear her dynamic and daring vision for the future for your alma mater.

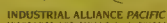
Time: 10:00 a.m. – noon

Place: Hall D, Shaw Conference Centre

Cost: \$15/person

Check out www.ualberta.ca/alumni/reunion for event updates and to register or contact Alumni Special Events at (780) 492-0866 or toll-free 1-800-661-2593 for more information.

Please note, pre-registration is required for all events. The RSVP deadline is **Friday, September 22** depending on space availability.



UNIVERSITY OF
ALBERTA

September 28 – October 1

Reunion 2006

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[†]Group auto insurance rates are not applicable in Newfoundland and Prince Edward Island. Due to provincial legislation, our auto insurance program is not offered in British Columbia, Manitoba or Saskatchewan. The home and auto insurance program is underwritten by Security National Insurance Company and distributed by Meloche Monnex Financial Services Inc.

*No purchase necessary. The contest is open to residents of Canada who have reached the age of majority where they reside. The approximate value of each vehicle is \$35,000. The contest runs from January 1 to December 31, 2006. In order to win, each entrant, selected at random, must correctly answer a mathematical skill-testing question. For more details on the contest rules and on our company, visit tdmelochemonnex.com/ualberta.

REFLECTIONS



There is a crisp, bright energy and atmosphere around the University campus each fall as students return to classes. I have always felt invigorated and optimistic at this time

of year, whether as a student or, in more recent years, as a volunteer with the Alumni Association. I've been involved with the Alumni Council since 1999 as Chair of the Student Life Committee, Alumni Representative to the Senate and Co-chair of the Senate Task Force on Student Engagement. As I enter this current University term in the role of Alumni Council President, I find myself once again eagerly anticipating the year and tasks ahead.

Our Alumni Association will be actively supporting President Samarasekera's "Dare to Discover" vision for our great University as well as implementing a new five-year strategic plan focused on maximizing and expanding our existing programs and services to our alumni and also on building exciting new programs for students. We will be creating new opportunities for alumni to connect to the University through volunteerism, advocacy, life-long learning and celebrations of excellence.

Alumni also have a pivotal role to play as we move towards our centenary celebration in 2008. The University of Alberta actually came into being on May 9, 1906. However, it was not until September 23, 1908, that the University first opened its doors to students. Those two years in the 1900s were needed to bring together the people and resources to realize the dream of opening a new university. Our next two years will be similarly dedicated to collecting our people and resources—documenting our common and unique histories, identifying legacies for the future, encouraging a return to campus of all of our alumni and building momentum for the celebration of our centenary.

I invite you all to join with me and participate in the excitement and opportunities that lie ahead. Whether your interest is in mentoring a student or young alumnus, taking part in a continuing education or travel program, supporting the creation of the Alumni Quad revitalization legacy project, or returning to campus to reunite with old friends, you are welcome and wanted. I look forward to meeting as many of you as I can during my time as president and hearing about your own passion and vision for our University.

Heike Juergens, '72 BA, '75 MEd, '87 PhD
Alumni Association President

trails

Following the Footsteps of University of Alberta Alumni



"Sunrise at Red Rock Coulee"

"Red Rock Coulee is a little-known wonder southwest of Medicine Hat," says Van Christou, '48 DDS, who retired in 1987 after nearly 40 years of practising orthodontics.

Through many visits from his home in Lethbridge to what he calls this "magical place," Van has become very familiar with the beauty of the round reddish boulders of the area that make up one of the largest sandstone concretions in the world.

To get this picture took a photographer's eye and a little luck. On his way to a photography conference in Regina, Van noted that "the weather conditions and cloud formations around Medicine Hat appeared unusually promising," so he stayed in the area overnight, hoping to capture the glory of the next morning's sunrise.

"I was rewarded with one of the most spectacular sunrises I have ever witnessed and was fortunate to be able to continue on to the photographic conference with a whole series of images made around some of the rocks."

SALUTE TO VOLUNTEERS



Getting involved in the Alumni Association has been "one of the best things I've ever done," says **Kurian Tharakan, '86 BCom.** "I've met

best friends, business contacts ... I even met my wife there!"

Social and business contacts aside, Tharakan—who works in corporate finance advisory services at PricewaterhouseCoopers LLP in Edmonton—has enjoyed helping the U of A's Alumni Association. He sits on the board of directors of the Business Alumni Association and serves on Alumni Council in two ways: as the representative for the School of Business and as the vice-president (scholarships), where he is part of the group that chooses recipients for Alumni Association-sponsored scholarships. "I really do enjoy working with young people," he says, "especially as it relates to getting an education."

Tharakan also judges business plans in School of Business courses each spring. Other volunteer commitments include sitting on the investment committee for the Canadian Scholarship Trust Foundation and on the awards committee at PriceWaterhouseCoopers, helping the company dispense awards to volunteers and charitable organizations. He has also been a board member for the Youth Emergency Shelter Society, primarily assisting with fund development.

A common element in his volunteering ventures is that he's extending help to people to get a start on a dynamic future. "It's all about possibilities," he says. The business plans he sees from students might need work on the business model, but "that's okay—the point is they are young and they are doing a business plan. I'm so impressed that they are attempting something like this."

The spark and energy Tharakan sees in young people motivates him to volunteer. "You get some energy back from helping out," he says. "The kick you get is that you are part of this process that people are going through where they are realizing what potential they might have."

evergreen

Get Your Tickets Here

University of Alberta alumni and their families can now get theatre tickets at a reduced price. For select shows, alumni can save up to 20% off standard ticket prices and purchase tickets before they go on sale to the general public.

"This is a fantastic program for our alumni," says Tracy Salmon, '91 BA, '96 MSc, coordinator of research and marketing in the Alumni Affairs Office. "They save money, and they get great seat selection and avoid lineups."

The first show to be offered through this program is Ross Petty's *Aladdin*, an over-the-top musical comedy starring Bret "The Hitman" Hart of WWF fame. Alumni can buy tickets to the matinee performances—Saturday November 18 at the Northern Alberta Jubilee Auditorium in Edmonton and Saturday December 2 at the Southern Alberta Jubilee Auditorium in Calgary.

To purchase tickets go to www.broadwayacrossamerica.com/groupsales and enter the password: UOFABEARS (Edmonton performance) or UOFAPANDAS (Calgary performance). Tickets must be reserved by Monday, September 4, and will sell out on a first-come, first-served basis.

The next show to be offered is *The Producers*. Information on future discounted shows will be available through *e-trail*, the Alumni Association's monthly electronic newsletter. To sign up for *e-trail*, e-mail alumni@ualberta.ca.



Stretch, laugh and relax... professor Bill Strean leads alumni volunteers through a laughter workshop at a recognition event on campus.

Volunteer Recognition Event

Reunion 2006 class organizers and 2005/06 chapter executives were invited to a recognition event on campus on June 13, 2006. It was a good opportunity for our volunteers to relax and for the Alumni Association to thank them for their energy and commitment to alumni association events throughout the year. Well-known laughter expert Bill Strean, a professor in the University's Faculty of Physical Education and Recreation, led the group through a laughter workshop.

Staff changes in Alumni Affairs Office

Sheila Stosky, '99 BA, Coordinator of Alumni Special Events, has been seconded to the University's President's Office to do event planning there for one year. Colleen Elliott, '94 BEd, has joined the office to take on Sheila's role,

including seeing Reunion 2006 events through to success.



Chloe Chalmers



Colleen Elliott

Chloe Chalmers, '00 BA, is the new Coordinator, Students and Young Alumni, in the Alumni Affairs Office. Chloe will be working with students and young alumni

to introduce them to the Alumni Association and all that it offers. "I'll be letting them know what is available to them and providing services and events that appeal to students and young alumni."

Watch for events geared specifically to students and young alumni. For more information, check the website at www.uofaweb.ualberta.ca/youngalumni. As well, Chloe would love to hear from students and young alumni; reach her by e-mail her at chloe.chalmers@exr.ualberta.ca.

Career Transitions Workshops Series

The Alumni Association is working with CAPS (Career and Placement Services) on campus to design a series of workshops for alumni at different stages of their work lives. The two-hour workshops will be held on three Wednesdays this fall; each session costs \$25/person, and all sessions will be in 4-02 Students' Union Building (SUB).

Finding work that fits

September 27, 2006

6:00 to 8:00 p.m.

Targeted to alumni currently seeking work or thinking about changing jobs, this workshop will focus on effective work search strategies and available resources to help find work that fits our skills, interests and goals.

From endings to new beginnings: Managing career transitions

Wednesday, October 4, 2006

6:00 to 8:00 p.m.

This workshop will benefit alumni currently in transition or contemplating a career change.

Emotional Intelligence and Career Success

Wednesday, October 11, 2006

6:00 to 8:00 p.m.

Unlike IQ, which remains more or less constant through adulthood and wanes in old age, our emotional intelligence (EQ) can be improved with effort. Attend this workshop to learn more about EQ and its impact on career success.

Alumni Events

For more information about alumni events, contact the Office of Alumni Affairs by phone at 780-492-3224 or (toll-free in North America) 1-800-661-2593 or by e-mail at alumni@ualberta.ca. You can also check the alumni events website at www.ualberta.ca/alumni/events.

September 26, 2006
London, England

6th Annual Network Canada Alumni Night

6:30 p.m., Canada House

Contact: Office of Alumni Affairs
Register at www.networkcanada.org

October 5, 2006
New York, New York

14th Annual Canadian Universities Alumni Reception

6:00 – 8:30 p.m.

The Roosevelt Hotel

Contact: Office of Alumni Affairs
Register at www.canadianclubny.org

October 6, 2006
Seattle, Washington

Annual Alumni Reception & Consulate General Dinner

The Seattle Westin Hotel

Contact: Office of Alumni Affairs

October 9, 2006
Toronto, ON

Eskimos vs. Argonauts

CFL Football game and Alumni Reception
Rogers Centre

Contact: Susan Wagner, '79 BSc(SPA),
susan.wagner@utoronto.ca

October 10, 2006
London, England

Reception for London-area alumni to meet President Samarasekera

6:00 p.m.

Location TBD; watch the post for details

Contact: Office of Alumni Affairs

November 24, 2006 (TBC)
Calgary, AB

Annual Alumni Theatre Event

Contact: Office of Alumni Affairs

November 25, 2006
Victoria, BC

Annual Alumni Christmas Celebration & Afternoon Tea

Contact: Office of Alumni Affairs

November 26, 2006
Vancouver, BC

Annual Alumni Christmas Brunch

Royal Vancouver Yacht Club

Contact: Vic Harrison, '58
BSc(Pharm), (604) 922-8879

November 28, 2006 (TBC)
Lethbridge, AB

Annual Alumni Dinner

Contact: Pat Brown, '61 Dip(RM),
pjbrown@theboss.net

December 2006
Hong Kong

Annual Christmas Party for Alumni and Families

Contact: Anthony Tam, '81 MBA,
atatam@vtc.edu.hk

February 2007
New York, New York

Skating & Pasta Party in Central Park

Bello Giardino

Contact: Office of Alumni Affairs

February 2007
Hong Kong

3rd Annual U of A Invitational Bowling Night Championship

Contact: Anthony Tam, '81 MBA,
atatam@vtc.edu.hk

March 3, 2007
Phoenix, Arizona

Annual Alumni Brunch

Contact: Norm Nichol, '58 DDS,
'71 Dip(Ed), '73 BEd, at (480) 396-4491

March 2007
Lethbridge, AB

Annual Alumni Branch AGM and Dinner

Contact: Pat Brown, '61 Dip(RM),
pjbrown@theboss.net

April 21, 2007
Victoria, BC

Annual Alumni Brunch

Contact: Office of Alumni Affairs



The Lethbridge alumni branch got together on June 16 for a barbecue and tour of the Alberta Birds of Prey Centre in Coaldale, Alberta. In the photos above, branch guest Kate Polgarova looks at a juvenile great-horned owl with a worker from the Centre (top), while branch president Pat Brown gets up close with a full-grown burrowing owl.

Tsunami Relief

Twenty-six-year RCMP veteran Corporal **Al Fraser**, '00 BEd, had the experience of a lifetime in helping rebuild shattered lives



Al Fraser in front of the Grand Palace in Bangkok, Thailand.

Born and raised in Cape Breton, Nova Scotia, I joined the RCMP in June 1980, right after graduating with a BA from the University College of Cape Breton. Twenty years later—after RCMP training in Regina, Saskatchewan, and Alberta postings to Canmore, Fort McMurray, Sherwood Park and Edmonton—I graduated with another degree from the University of Alberta (where I was very proud and happy to walk across the stage during the June convocation and receive a hug from Lois Hole).

Like everyone, I was deeply affected by the news on Boxing Day 2004 of the tsunami that swept through South and Southeast Asia claiming over 200,000 lives, including a final tally of more than 186,000 dead and over 42,000 missing. Little did I know at the time that I would personally become involved in trying to ease the pain of the tsunami survivors who had lost loved ones to the natural disaster that resulted in an unprecedented volume of victims requiring forensic identification.

By December 28, 2004, Disaster Victim Identification (DVI) specialists began arriving in Thailand to offer assistance to the Thai authorities in helping to identify that country's close

to 4,000 tsunami victims. Two days later an international DVI coordination centre was established in Phuket.

On January 12, 2005, the Thai government formally established the Thailand Tsunami Victim Identification (TTVI) operation to integrate operations into a single process designed to meet the internationally accepted Interpol guidelines for mass fatality incidents. More than 400 specialists from 31 countries arrived in Phuket, Thailand, in the days following the tsunami. Use of the Interpol protocols ensured that all teams collated post mortem information in the same manner. (The TTVI remained in operation in Phuket until December 2005. The operation was then moved to Bangkok where it reopened on January 4, 2006.)

Since January 12, 2005, more than 2,000 personnel from 31 nations either volunteered or were seconded to support the activity of the TTVI project. Personnel were involved in search and rescue operations, the identification process, collecting DNA samples, conducting forensic analysis, logging data and helping with the repatriation of tsunami victims' remains. Other countries that didn't send personnel provided financial and logistic support.

Before this whole process began, the Royal Thai Police identified key positions for which they required international assistance. One such position included the one I held for six weeks—media relations officer. My work partner—also a media relations officer for the RCMP—had been asked to go to Thailand from November to mid-December 2005. Prior to his departure from Phuket he was asked if he knew of anyone with the same media background as himself. My name was given to the Royal Thai Police and the request for my assistance was made through Interpol to the RCMP in Ottawa where eventually it made the trip down the chain of command to my boss in Edmonton. Permission was then granted for me to head to Thailand for six weeks. I would be the last media officer in Thailand working for the TTVI.

My duties would include the preparation of media releases related to the TTVI, liaison with the Royal Thai Police media officer on developments, conducting media/diplomatic tours of the TTVI operations, development of media strategies for the 3000th Victim Identification (a point where over three quarters of the victims would be officially identified) and the withdrawal of the international contingent from Thailand.

I was also available to the international media for interviews and tours of the TTVI operation and informed the diplomatic community in Bangkok of any new developments regarding the identification of their citizens, as well as updates on the entire operation. Lastly, I would monitor local and international news reports and provide media monitoring reports to the TTVI executive on a daily basis. I was the single point of contact for media enquiries in relation to the TTVI.

This was my one and only international travel that was work related, so this was very new to me. But when I arrived in Thailand I found some of the friendliest and most helpful people I have ever met. Thailand is called the "land of smiles" for a reason, and I found the Thai people eager to learn and to teach as well as attentive and compassionate. From the very moment I arrived in the airport, the people were very friendly and helpful, especially once they saw my red maple leaf backpack. Then I walked outside. The heat, oh my, the heat! It was 35°C and 90% humidity. When I left Edmonton it was -20°C... quite a change for a body to experience in less than 48 hours.

The next day I met a colleague from Interpol who welcomed me and explained the cultural do's and don'ts as well as the work environment. The following day work started at 7:30 in the morning with me meeting my three other Interpol associates before we headed off to walk the few blocks to the Sky Train.

I had never witnessed such dense traffic before. Edmonton rush hour is calm by comparison. Mind you, Bangkok has a population of over 11 million. I also noted that during my time in Bangkok I did not see one instance of road rage. Once I got to the Sky Train I ended up being wedged into one of the above ground trains and whisked away to my destination, four stops away. Our suite was on the 12th floor of the Royal Thai Police Headquarters, a building located within a large compound that was gated and controlled by armed police officers.

One morning a couple of the team leaders stood in the middle of the room and shouted that 10 more people had been positively identified.



The TTVI workspace was a typical office area — open concept with work stations two deep on either side of a centre aisle. From my desk I could see all around me. To my left were dental experts looking at a computer screen on which were several photos, one of a beautiful young lady smiling, then another photo showing a dental X-ray, and a third photo showing teeth as they were noted in the skull of this now deceased person. Other differences in this work space to my one back in Edmonton were the photographs of tsunami victims being used in comparison to photos of skeletal remains, computer printouts of DNA findings, and victims' property being boxed up or being prepared for return to loved ones.

There was lots of chattering all around me. Of course, Thai was being spoken, but Chinese, German, French, Swedish, Norwegian, Swiss, as well as Australian, New Zealand, British, Irish and some Canadian accents added to the mix. The working language was English, but we all tried to pick up a little of everyone else's tongue. The Thais got a great kick when we tried to

speak Thai — *kick* is a prime example, they would take it figuratively when I should have said *great laugh*.

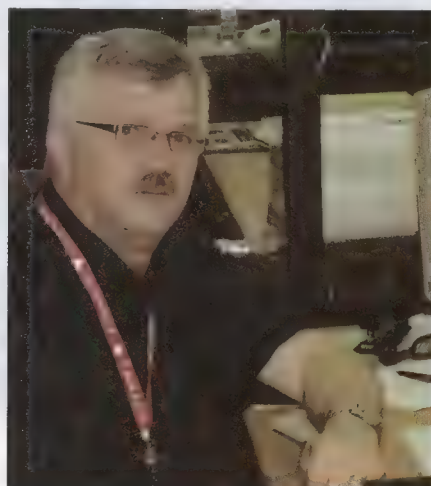
We neared the 3000th victim identification in early February 2006, a big milestone. One morning a couple of the team leaders stood in the middle of the room and shouted for everyone to pay attention before proudly announcing that 10 more people had been positively identified. Loud applause erupted — 10 more families will know; 10 more families will have closure. And this, after all, was why we all were there.

The day after the 3000th identification, everyone was brought together and told the news. The room was filled with emotion — pride for the accomplishments of our international community, and relief in the knowledge that 3,000 families had been returned the remains of their loved ones. It is sad to realize that not all of those who perished in the tsunami will be identified. In many cases the Thai victims cannot be identified as entire families have been lost. There is nowhere to go for dental records or DNA comparison.

February 28, 2006, marked the last day of work for many of the international personnel who had been a part of the TTVI, including me. The project was scaled down to five international personnel who continued with the project until the end of April 2006. There is a special bond among those of us who participated in the TTVI. We operated in a truly international environment where people of various languages and cultures all worked together towards a common goal.

There were many tears shed in the office on that final day as we all prepared to depart. I had never developed friendships so quickly and with so many. Ultimately, the strong bond was the direct result of the important task we were assigned — to return home the 3,777 Thai victims of the tsunami of December 26, 2004. I am glad to have had the experience and opportunity to participate and I am proud to be counted as one of those who worked on the TTVI. I will never forget the experience or Thailand. ■

Al Fraser at his desk in the TTVI office.



The Metabolome Project

continued from page 30

about and describing small molecules. "For the next half century, that's all that biochemistry was," he says. However, in the 1970s molecular biology took over, and with the interest in cloning and similar pursuits, small molecules were largely forgotten.

The first stage of the Human Metabolome Project was largely what Wishart describes as a "backfilling process—searching out what had already been learned about small molecules and entering that information into a database. The project has now moved into its second phase—using clinical samples to measure and identify the compounds present. In some cases these are things that have never been seen or described before.

Because it is necessary to identify everything that could be found in a human body, Wishart and his colleagues have turned their attention to substances that are not naturally ingested, including drugs and food additives. In fact, an offshoot of the Human Metabolome Project is the world's most complete drug database, DrugBank (www.drugbank.ca), which contains detailed information about nearly 4,300 drugs. This includes not only such things as the chemical structure and the molecular weight—and, of course, the NMR spectrum—but also patient information, including possible side effects and contraindications. "DrugBank was good practice," says Wishart. "We cut our teeth on it. We knew that the information we wanted had to be somewhere. We just had to go out and find it."

Without the support of Genome Canada, the federal agency created in 2001 to serve as Canada's primary funding and information resource for genomics and proteomics, the Human Metabolome Project might have never got off the ground. The Project was

made possible by a \$7.5 million grant issued under Genome Canada's Applied Genomics and Proteomics in Human Health funding umbrella.

Although the Human Metabolome Project slightly pushes the envelope of what Genome Canada typically funds, it has generated a great deal of enthusiasm. "This project has the potential to be among the highest profile activities taking place in Alberta universities," says Gijs van Rooijen, the chief scientific officer for Genome Alberta, the organization set up by Genome Canada to oversee genomics infrastructure and research in Alberta. "People around the world are looking carefully at what it is doing and a number of international efforts are prepared to team up with it."

The initial start-up capital for the Human Metabolome Project came as a result of a funding competition that saw an international scientific review panel consider applications and give the Alberta project one of the highest ratings. Recently, the Project underwent a mid-term review by internationally respected scientists and the results were equally as encouraging. "Again the Project received one of the highest rankings," says Van Rooijen. "It had done all it said it would and more."

Van Rooijen adds that the Human Metabolome Project is building on existing strengths at the U of A and the University of Calgary—strengths in NMR technology, bioinformatics, chemistry, and medical laboratory science. And, he says, the cooperation is building strength upon strength. "Traditionally individual chemists, biologists or computing scientists make individual discoveries. This project brings all the discoveries under the same umbrella and the whole is definitely bigger than the individual parts."

Wishart says that, if all goes well, he and his colleagues should have the first version of the Human Metabolite Database ready for release to the public by the first day of 2007. Researchers will then be able to translate the information it contains—the relationship of the various metabolites to genes and proteins, pathways and disease—to tests that will inform medical practitioners in their offices.

"Everything tells us that knowing this information is what physicians are looking for," says Wishart. "The bottom line is that we will be able to diagnose most diseases better, faster and cheaper." ■

—Rick Pilger

The Pyramid of Life

Metabolomics is a newborn cousin to genomics (the study of an organism's entire hereditary information as expressed in its DNA and RNA) and proteomics (the study of the structure and function of proteins). Together genomics, proteomics and metabolomics make up what is referred to as the pyramid of life. As part of this triumvirate metabolomics sits at the pointy end of the pyramid in relation to the other two disciplines. At the base of the pyramid are the 20–30,000 genes in the human body (the number fluctuates according to what kind of computation method is used) that the human genome project systematically mapped completely for the first time in 2003. Moving into the middle of

the pyramid we find the complex array of proteins such as keratin and collagen (the main ingredients in hair, muscles, tendons and skin) that form the body and regulate its functions. At the top of the pyramid is the newest addition to this complex interplay of bodily systems—metabolomics. By the end of this year the approximately 1,400 metabolites that can be measured in blood, urine, white blood cells and cerebral spinal fluid should be identified and categorized as to exactly what concentration levels they should be at in a healthy body so that physicians and researchers will have a base number that they can use to compare their own findings to.

Przewalski's Peril

Like all gazelles, Przewalski's gazelle is a beautiful, swift creature. But it might not be fast enough to outrun the circumstances pushing it to the edge of extinction in northern China where one U of A grad is working to ensure the gazelle's race against progress is not a race to the death.

Zhigang Jiang, '93 PhD, has devoted much of his working life as a conservation biologist to saving the species named for the Russian scientist who first collected skull and skin specimens and brought them back to St. Petersburg in 1875. The few hundred Przewalski's gazelles that live in the Qinghai Lake region in China are the last in the world, making the species more rare than the Giant Panda.

The plight of Przewalski's gazelle, says Jiang, "mirrors many conservation problems in the developing world." They are threatened by a combination of overgrazing, climate change, development, and hunting. "Half a million people—Tibetans, Mongolians, Tu and Hui—depend on pastoralism in the region, and small bands of herders move with their livestock along traditional migration routes. However, their activities have increased to the point that the gazelles are now outnumbered 10,000 to one by domestic grazers belonging to these pastoralists."

In addition, highways, railways and human settlements disrupt the movement of the gazelles, and their grazing lands are being converted to crop agriculture. Pointing to the example of the Saiga antelope, which was extirpated from China in the last century, Jiang asks, "Will the Przewalski's gazelle be the next one? Once we lose it, we can never get it back."

Jiang's interest in Przewalski's gazelle began after he got his PhD from the U of A and began work at the Chinese Academy of Sciences where he started searching for a mammal species endemic to China to concentrate his research on. That's when he found that Przewalski's gazelle needed his help. "I found that people, even zoologists, know very little about Przewalski's gazelle," he says. Since that time Jiang has become an expert on the species and has helped elevate Przewalski's gazelle as a flagship species for grassland conservation in China. He wrote a book on the gazelle in 2004, and recently received the Whitley Award—the U.K.'s top conservation award—for his commitment to protecting the species.



Zhigang Jiang (standing, second from right) with his research team in China's Qinghai Lake region where they are studying Przewalski gazelle, which was listed in 2000 as one of the 15 most endangered wild plants and animals in China.

Jiang and his team of researchers have analyzed the gazelle's feeding habits, the predation of wolves on the population, and its DNA sequences (to estimate the gene flow among the species known for a unique pair of black, curved horns that distinguish Przewalski's gazelle from other central Asian gazelles).

Along with all his research, Jiang has worked to increase public awareness of the need to protect the gazelle. He conducts public education seminars in the local community and talks to top officers in the Ministry of Forestry and Qinghai Provincial Wildlife Management Bureau to urge law enforcement in protecting the gazelle. "After our long-term work," he says, "the public awareness of the serious survival conditions of the gazelle in the local community and at the national level has been greatly promoted."

Now that awareness has been raised, it's time to take action in field conservation, says Jiang. First he'd like to see the gazelles protected from their wolf predators and be given a parcel of land large enough for them to feed and breed on. After that, he says, "we can think about maintaining the gene flow among those populations and establishing a reserve for the gazelles."

After more than a decade devoted to helping this species, Jiang has a simple plea: "Let us act now to save Przewalski's gazelle, before it is too late." ■

—Shelagh Kubish, '85 BA

Qui Qui

Canadian expat Christina Barabash, '96 BA, '02 MA, takes us on a tour of her 'City of Light' where she's been living for five years



The stance from which to see Paris," wrote *New Yorker* columnist Janet Flanner in an introduction to her collected Paris essays, "was any one of its bridges at the close of the day. The Pont Neuf still looked as we had known it on the canvases of Sisley and Pissarro."

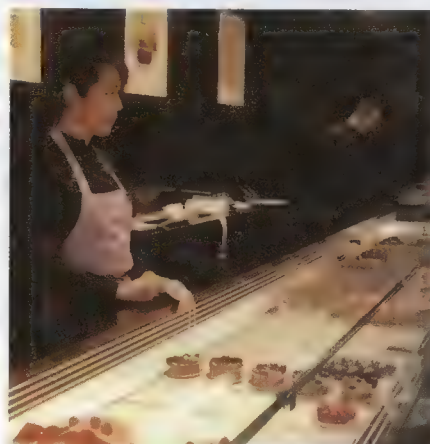
Flanner was talking about the '30s, a great time for expats in Paris. But it's still true today. Tourists and expats alike love Paris for its many scenes that seem frozen in time. But like all those legendary foreigners (Ernest Hemingway, Man Ray, Morley Callaghan, Pablo Picasso, Gertrude Stein, F. Scott Fitzgerald...) who once made Paris their home and whose lives intertwined with the streets and cafés of Saint Germain, Montparnasse and Montmartre, the expats I know here need to claim their own spaces in the City of Light.

What follows are some of the places and spaces that I've claimed as my own.

Eat: amazing pastry, casual dining, and artistic nosing

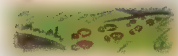
Eating is a French national pastime. And I'm of the opinion that some of the most creative Parisian food artisans are pastry chefs. There's currently an intriguing exchange happening between French techniques and Japanese flavours that I'm having a lot of fun sampling.

A Japanese patissier named Sadaharu Aoki makes lovely black sesame éclairs



and green macha tea cakes, while French genius Pierre Hermé also experiments with mocha and salty caramel flavoured desserts. Both shops have macaroons that must be tasted to be believed. These are just two of the many patisseries (such as Ladurée) involved in a macaroon rivalry for craziest flavour.

Patisseries aside, I also love the cozy and casual atmosphere at Le Père Fouettard, near Les Halles, site of Paris's historic food market. Not only is the service very efficient (I'm always amazed at how many tables one server can handle—just don't say you're not ready to order or you'll regret it), it also has a huge heated terrace that keeps it comfortable even on cool days. This place serves capital 'F' French food—my husband can never pass up their bone marrow dish. Afterwards we might stroll over to the little pedestrian street rue Montorgeuil for coffee or a digestif.



When in the mood for fresh flavours and original combinations, I reserve a table at Tokyo Eat, which is connected to the contemporary art museum, Palais de Tokyo. They offer modern fare such as salmon with pineapple and cucumber salad and Bounty milkshakes. It's the opposite of stuffy and especially fun in the summer as the skateboarders who have partially claimed its esplanade patio can make the scene quite carnivalesque.

Of course, no mention of Parisian food would be complete without mentioning the baguette. When I first moved here and saw people carrying baguettes with the end gnawed off I would always think they were either very hungry or had no self-control. Now I can relate. But not with just any baguette. I like the ones at Maison Kayser, and they have to be a bit dark in colour. Still, I try to be discreet and wait until I'm at least in the stairwell climbing the six flights to our apartment before I start gnawing.

Relax: Gardens at Palais Royal and Galerie Montpensier

Public spaces in Paris are quite different from Edmonton. For one thing, it's difficult to find places without a lot of people. The meticulously cultivated and rigorously maintained parks are no exception. However, on weekdays, the Palais Royal garden is still an oasis of calm that only gives way to a whirl of family activities on weekends.

Just a couple blocks away are the vaster and more renowned Tuileries Gardens, with a central courtyard tucked away behind the famous La Comédie Française theatre. It's a refined place to read and relax or you can walk and maybe eat a *pain au chocolat* on the go, or *sur la pousse*, as they say here. But what makes the Tuileries my favourite garden is not the shady arcades of trees, but the unusual juxtaposition of historical architecture and contemporary art.

An installation of black and white striped columns by French conceptual



artist Daniel Buren, dating from 1985, never ceases to startle me — in a good way. It appears to me like something a decadent prince might have commissioned three centuries ago. A fountain with large steel spheres by Pol Bury is another interruption of the perfectly preserved historical moment, which one comes across in Paris more often than one might imagine.

I also like to browse along the adjoining Galerie de Montpensier. It not only used to be a favourite spot for courtesans and gamblers in the 18th century, but its cafés also seated many French Revolution plotters. Today it's perfect for window shopping (*faire du lèche-vitrine*) since it's home to Paris's king of designer vintage, Didier Ludot, as well as the only Paris location of a Marc Jacobs boutique, the designer known for perfectly up-to-date clothes with vintage references.

Weekend: Contemporary art exhibits

The range and diversity of Parisian museums and galleries never ceases to amaze me. Since I live here I figure I can do the Louvre masterpiece tour anytime. Which means I'm free to indulge my interest in contemporary art and photography without any guilt. There are several public and private spaces that host seasonal exhibits (with varying degrees of experimentation and daring). I like a variety of media so I frequent the Fondation Cartier, Maison Rouge, Palais de Tokyo, and Maison Européenne de la Photographie. Another spot with an emphasis on photography is the Jeu de Paume, which has a site in the Tuileries and the other in a gorgeous edifice in the Marais—site Sully.

For gallery hopping, I like strolling along rue Louise Weiss which is home to several cutting-edge galleries. The area is also home to the new Bibliothèque Nationale and other examples of interesting contemporary architecture.

On weekends when I need a break from the city, there are dozens of day-trip possibilities that are about an hour's train ride from Paris. And it's easy because, barring any strike action, the train system—like the urban metro—works brilliantly. Two



picturesque destinations are Giverny—where Monet lived and the site of an American art museum—and Fontainebleau, with its stunning chateau and expansive hiker-friendly forest.

Hard to find

I still get cravings for things from home that are hard to get here—popcorn seasoning, Cadbury crème eggs, Twizzlers (impossible to find even in the North American specialty shops), and saskatoon berries.

Some of my other cravings I can satisfy, but at a cost! There's a grocery store called La Grande Epicerie, which looks more like an art gallery. They sell products like syrup (pure maple or Aunt Jemima) and root beer as well as a good selection of products from Italy, Japan, Spain, etc., and every bit of couture food imaginable. There are also a few Canadian bars in the city that come in handy, especially on Canada Day or when you need an authentic chicken Caesar salad or nachos with real sour cream.

Shakespeare and Company is the classic English-language bookstore whose 91-year-old owner, George Whitman, traces his ancestry back to Walt Whitman. But the WH Smith bookstore on rue de Rivoli is my pick for everything from the latest from publishers in the U.K. and North America to the best selection of English magazines in Paris.

A view or two

Living here you can forget how beautiful Paris really is, but seeing it from an elevated vantage point quickly restores even the most jaded Parisian's sense of awe. There are several options: the Eiffel Tower, of course, and the Montparnasse Tower. But my favourite is sipping a cocktail and contemplating the rooftops at Georges, the café on the top floor of the Centre Pompidou, the national museum of modern art. An entrance ticket is required but the collection and exhibits are worthwhile and back on the ground the adjoining square also offers great people-watching opportunities.



Shop: the Marais and rue Vieille du Temple

It took a while for my eyes to grow accustomed to the Parisian style of dressing and to be able to discern variations in style loosely based on different areas of the city and largely connected with notions of boho (bohemian) and bourgeois culture and permutations and combinations of the two.

One of my favourite streets for finding slouchy chic cashmere-blend sweaters, classic but cool dresses, and draped tops is rue Vieille du Temple in the Marais district where boho Paris temple Vanessa Bruno is located, along with Manoush, APC and Abou d'Abi Bazar. For accessories such as shoes, jewellery and cosmetics, I always find some tempting object in the shops on rue des Francs Bourgeois, which bisects rue Vieille du Temple. The area is also known for home accessories, particularly kitschy '60s and '70s pieces. After shopping, I treat myself to a gelato-style ice cream at Amorino—favourite flavours Nutella or a carrot-orange-lemon concoction.

Lost in translation

I'm not sure if it's a style or comfort thing, or a combination of both, but a scarf is never far from a Parisian's neck. I only wear a scarf when it's cold so I really stand out in what seems like mild weather to me. And even when I am wearing a scarf, I've usually tied it incorrectly. Believe me, there's an art.

There's also an art to speaking French like a Parisian. A phrase you hear a lot here is "*C'est pas terrible*," to describe a movie, a bar, whatever. For the longest time I didn't get this phrase, thinking it was like "*c'est pas mal*," as in "it's okay." But it actually communicates disapproval.

Contrary to popular opinion, you can get away with speaking a lot of *franglais* here, even heavy on the "*anglais*," but this often results in flawed comprehension as Parisians use many English words to mean something quite different to how we use them. I'm not talking about French words that are similar to English words but mean something different. I'm talking about loosely adopting a word and investing it with another concept ... a bit like a green-tea filled macaroon.

Finding your way around

The addresses of the places mentioned in the story.

(Arrondissements—the equivalent of our zip codes—mean a lot in Paris. They're the single or double digits that end the

'75' prefix below. Everyone in Paris knows that, for instance, if your address is 75016 (or the 16th Arrondissement) you're living in an upscale neighbourhood while the 3rd Arrondissement is much more bohemian.)

- Gardens at Palais/Royal. Galerie de Montpensier, off rue de Montpensier, Paris 75001
- Didier Ludot, 24 galerie de Montpensier 75001
- Marc Jacobs, 56 galerie Montpensier 75001
- APC, 112 rue Vieille du Temple, 75003
- Vanessa Bruno, 100 rue Vieille du Temple, 75003
- Manoush, 75 rue Vieille du Temple, 75003
- Abou d'abi bazar, 125 rue Vieille du Temple, 75003
- Amorino, 31 rue Vieille du Temple, 75004
- Fondation Cartier pour l'art contemporain, 261 boulevard de Raspail 75014
- La Maison Rouge – Fondation Antoine-de-Galbert, 10 boulevard de la Bastille 75012
- Palais de Tokyo, 13 avenue du Président-Wilson, 75016
- Maison Européenne de la Photographie, 5-7, rue de Fourcy 75004
- Jeu de Paume-Site Concorde, 1 place de la Concorde 75001
- Jeu de Paume-Site Sully, 62 rue Saint Antoine-Hôtel de Sully 75004
- Rue Louise Weiss 75013
- Bibliothèque Nationale de France François Mitterand, 11 quai François Mauriac 75013
- Le Père Fouettard, 9 rue Pierre Lescot 75001
- Tokyo Eat, see Palais de Tokyo
- Sadaharu Aoki, 35 rue de Vaugirard 75006
- Pierre Hermé, 72 rue Bonaparte 75006
- Ladurée, 75 avenue des Champs Elysées 75008
- Maison Kayser, 8 rue Monge 75005
- La Grande Epicerie, 38 rue de Sèvres 75007
- Shakespeare & Co, 35-37 rue de la Bûcherie, 75005
- WH Smith 248 rue de Rivoli 75001
- La Chambre Claire, 14 rue Saint Sulpice 75006
- Centre National d'art et de culture Georges Pompidou, 19 rue Beaubourg/place Georges-Pompidou 75004

Christina Barabash is the editor and translator for L'Oréal's CultureLuxe magazine, as well as other luxury trade and consumer publications. ■

Terms Of Indira



President Indira Samarasekera once self-deprecatingly remarked that her daughter answered the question: "Where does your mother work?" with the reply "My mother — she doesn't work, she just talks."

Of course, talking is its own work and in this issue and issues to follow we will be high-

lighting excerpts from some of the speaking engagements where Samarasekera has worked her talk.

Killam Research Fund launch — Edmonton, April 2006

"With the generous support and participation of the Killam Trusts, we have created a \$1.5 million dollar annual disbursement fund to support the social sciences, humanities, and fine arts, a pressing need I've highlighted throughout my presidency, beginning with my installation speech.

"Rest assured that I will still advocate to the Provincial Government for the future creation of an endowment parallel to the Alberta Heritage Foundation for Medical Research and Alberta Ingenuity Fund."

Honorary Doctorate Ceremony — University of British Columbia, May 2006

"Let us educate people on the importance of the environment. Let us invest in research and lead the world in clean energy technologies. Let us make our cities more affordable for all so long commutes to work by car are not the norm. Let us pressure our elected leaders to take action on climate change. We have faced insurmountable problems throughout the ages and we have overcome them through sheer human ingenuity."

"Graduates of the class of 2006, your grandchildren and mine will be counting on you to tackle the most important global challenge facing humanity. Margaret Mead, the renowned anthropologist, said, 'Never doubt that a small group of thoughtful committed citizens can change the world. Indeed, it is the only thing that ever has.' "

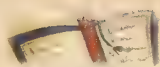
Quaecumque Vera Honour Society — Edmonton, May 2006

"Last year as I was deciding to take on the great responsibility and privilege of becoming the U of A President, I did a little research about the University's history. Well, to tell you the truth, I did A LOT of research. Once I started reading about Alexander Rutherford and Henry Marshall Tory and the early builders, I couldn't stop.

"I loved learning about the U of A's history. It seemed that every anecdote, every story was filled with individuals with a clear sense of vision and purpose, who got together, then rolled up their sleeves and got to work. I told myself, 'Now, here's a group I want to join.' "

China Central TV interview (World Famous Universities series) — June 2006

"What is driving the enormous growth in our burgeoning enrolment and increasingly national and international profile? Quite simply, it is energy: both in the form of abundant natural resources and in the talent, creativity, and ingenuity of our researchers and students, our greatest resource."



bookmarks



People of the Blood **George Webber, '73 BA**

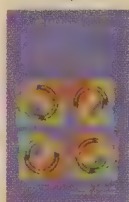
A photographic journey spanning over a decade, *People of the Blood* is a collection of images

and observations of the people of Canada's largest reserve—The Blood. The photographs in the book have been featured in *Canadian Geographic* magazine, honoured with three national magazine awards, and exhibited in Montreal and the Kahnawake Mohawk Territory. (Fifth House Publishers, www.fitzhenry.ca/fifthhouse.htm)

Ethics for the Practice of Psychology in Canada

Ethics and Law for Teachers

Derek Truscott, '83 BA, and Ken Crook, '83 BA, '86 LLB

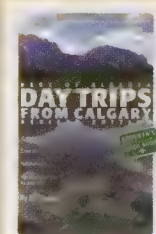


Friends since childhood and roommates while at the U of A, Truscott and Crook have co-authored two books that are the first of their kind in Canada. *Ethics for the Practice of Psychology in Canada* is the only text to deal with professional ethics for psychologists from the Canadian perspective and was an Alberta Book Awards finalist for Educational Book of the Year in 2005 (U of A Press, www.uap.ualberta.ca).



Ethics and Law for Teachers is the first Canadian text to address in a single volume both law and ethics as they pertain to educators. Examples taken from teachers in the field, discipline hearings and court cases introduce the challenges of teachers' professional ethics. (Thomson Nelson, www.nelson.com).

Day Trips From Calgary



Bill Corbett, '76 BA
Corbett has written a revised, expanded edition of this regional bestselling guide to the spectacularly diverse landscapes of southern and central Alberta.

Each trip describes the route from Calgary and what can be seen and done along the way—including lots of history, geography, geology, watchable wildlife, and places to eat. (Whitecap Books, www.whitecap.ca)

Listening in Medicine: The Whiplash Mystery and Other Tales

Michael Livingston, '53 MD



Livingston, a family doctor who has lectured in Canada, the U.S., and New Zealand, shares his experiences and explains the importance of physicians listening to their

patients' stories. Livingston maintains that patients' tales or narratives are central to medicine and that health professionals must return to basic principles, particularly to listening, essential both for diagnosis and for healing. (Trafford Publishing, www.trafford.com)

What Lies Behind the Picture? A Personal Journey into Cree Ancestry

Vernon R. Wishart, '52 BDiv, '71 DDiv(Honorary)



Wishart traced his family lineage back 250 years to Hudson's Bay Company fur traders and their Native and mixed-blood wives and discovered stories of hardship and heroism, discrimination and reconciliation. *What Lies Behind the Picture?* combines exciting storytelling with thorough historical detective work. Wishart situates his family's story within a series of historical events that influenced the shape of Western Canada. (Central Alberta Historical Society, www.albertahistory.org)

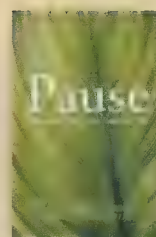
The Frosts of Winter

David F. Stevenson, '56 BA



Set in the western prairies, *The Frosts of Winter* is the story, seen through the eyes of an adventurous Scot, of the crucial days of the European advancement into the west and the collision with the

Native people. The novel addresses the question of why the settling of the American west was significantly more violent than in Canada and credits James Macleod, Commissioner of the North West Mounted Police, and Crowfoot, Chief of the Blackfoot Confederacy, with forging a trusting relationship that saved the Canadian federation. (Trafford Publishing, www.trafford.com)



Pause: Putting the Brakes on a Runaway Life

Katherine Gibson (Evans), '73 BEd

Pause shows readers how to inject moments of fun, adventure, self-care, and serenity into each day. The book contains short chapters, each offering a single idea for a break. The book then explores three essential practices integral to healthy living. Gibson, who conducts workshops and frequently appears on radio and television, will be on a cross-country book tour this fall; see her schedule at www.katherinegibson.com. (Insomniac Press, www.insomniacpress.com)

Vitality & Vitals: My Health and Lifestyle Journal

Beverly Whitmore, '74 BSc(HomeEc), and Lorna Milkovich



This fact-filled health and lifestyle journal offers adult Canadians a fresh perspective on their health and promotes vitality through personal lifestyle choices, maintaining that each of us

has the opportunity to affect how long we live and how healthy we feel. The book presents health and lifestyle information and provides an organized and convenient place to keep personal health records. (Vitality & Vitals Inc., www.vitalityandvitals.com)



The Master Plan

Heather Pringle, '73 BA

Heinrich Himmler, chief of the SS and the architect of the Nazi death camps, was convinced that archaeologists had long ignored

the accomplishments of a primeval race of blond-haired, blue-eyed conquerors—the Aryans. In 1935 he founded a research institute to manufacture archaeological evidence for political purposes. Pringle paints a compelling and sinister portrait of this institute and its role in the Holocaust. *The Master Plan* is a groundbreaking story of delusion and excess, of scientific and political abuse on a global scale. (Hyperion, www.hyperionbooks.com; Penguin Canada, www.penguin.ca)

classnotes

'36 John Harvey, MSc, '34 BA, of Victoria, recently self-published an autobiography called *All My Yesterdays*. John chronicles his childhood in Killam, Alberta, his years at the U of A, and his decision to study medicine and specialize in neurosurgery. "I have great memories of my time at the U of A," he says.



'39 John Smulski, BSc, '42 MD, turned 90 in early 2006 and had time to reflect on a busy life and distinguished career in medicine. He practised at the General, the Royal Alexandra, and the Misericordia hospitals in Edmonton. In 2000 he received a certificate on behalf of the Grey Nuns (Edmonton General) Medical Staff Association and Caritas Health in recognition of his contribution to clinical care, scientific research and medical education at the Grey Nuns Hospital.

'46 Neil Edgar Allen Ronaghan, BEd, received his MA from the U of Saskatchewan in 1976 and his PhD in History at the U of Manitoba in 1987. "Since my retirement as a teacher I have specialized in history and am now researching and writing in the field of western Canadian history."

'56 Hal Freeman, MD, of Boston, Massachusetts, was recently honored by having an award named after him. The New England Ophthalmological Society (NEOS) is creating the *Hal MacKenzie Freeman Lecture*. In its announcement of the new lecture, NEOS described Hal as the "quintessential ophthalmologist by whom all will be measured."

Hal, among other things, is associate clinical professor of ophthalmology at Harvard Medical School, clinical senior research scientist at the Schepens Eye Research Institute, and surgeon in ophthalmology at the Massachusetts Eye and Ear Infirmary. He also operated on several myopic members of the Royal Family of Saudi Arabia, and during a follow-up examination he mentioned to King Khaled that the Middle East needed an eye hospital. Hal was soon appointed chief medical planner of the King Khaled Eye Specialist Hospital in Riyadh, Saudi Arabia. The hospital compound contains a 220-bed hospital, living quarters for staff, and offers residency and fellowship programs for the training of ophthalmologists.

Hal has served as president, secretary, and executive director for NEOS. When he carves out time for relaxation, Hal can be found cruising off his island home in Cohasset, MA, and skiing black diamond runs.

Van Christou, '48 DDS, of Lethbridge, recently had his second book of photographs published—*Garden of Serenity* describes Zen principles of design used in Japanese gardens and includes Van's photographs of the Nikka Yuko Garden in Lethbridge. In 1998 Van's remarkable photos of Alberta were published in *The Land of Shining Mountains: Portrait of a Western Landscape*. Van has been an enthusiastic art nature photographer since he retired from the practice of dentistry in 1987.



'57 Philip Cash, BSc(Pharm), donated \$150,000 to the Faculty of Pharmacy and Pharmaceutical Sciences in 2005 to support two specific areas in perpetuity. The Philip Cash Pharmacy Research Excellence Endowment, created with \$100,000, will generate \$5,000 a year to support research endeavours in the faculty, and the Philip Cash Graduate Student Scholarship in Pharmacy will generate a yearly \$2,500 award to acknowledge excellence among the faculty's graduate students. Philip, who lives in Eugene, Oregon, spent his research career with many U.S. firms.

'58 Allan Wachowich, LLB, '57 BA, received the Msgr. Bill Irwin Award of Excellence from Catholic

Social Services in June. Allan has been a lawyer since 1959, a judge since 1979, and was appointed the Court of Queen's Bench chief justice in 2000. He was awarded the Msgr. Irwin Award in recognition of his service to the cause of justice in Edmonton, Alberta, and Canada. He has served on the boards of many community organizations including the Canadian Catholic Organization for Development and Peace and the St. Thomas More Catholic Lawyers' Guild, an organization he started in 1963.

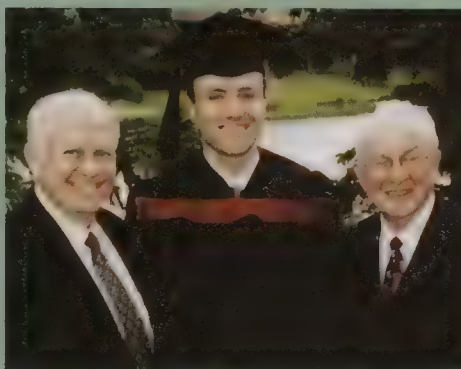
'62 Erich A. von Fange, PhD, of Adrian, Michigan, served as academic dean of a new Lutheran institution, Concordia University, in Ann Arbor, Michigan, and continued serving there until he retired in 1987. He writes that his special interests include "world travel, researching and writing articles and books on the ancient history of the Bible lands."

'63 Lynne Bowen (Crossley), BSc(Nu), '62 Dip(Nu), received an MA in western Canadian history from the U of Victoria in 1980. She recently retired as the Rogers Communications Co-Chair of Creative Non-Fiction Writing at UBC, a position she held for 14 years. She will now be able to devote herself full-time to her new book about Italian immigration to B.C., which has required numerous trips to Italy in the company of her husband, **Richard Bowen, '64 MD**, who writes magazine articles about the cooking schools they attend and the wine they drink while there.

Steele Brewerton, '48 MD, '45 BSc, was a proud father when his son **Conway Brewerton, '77 MD, '73 BSc**, graduated with distinction from the U of A's medical faculty 29 years after Steele had received his MD from the U of A. Last June, 29 years later, history repeated itself in this family when Conway's son **Lee Brewerton, '06 MD**, graduated from the U of A's medical faculty.

Steele practised medicine for 50 years in various locations, including a residency in obstetrics/gynecology at the LDS Hospital in Salt Lake City, Utah, and at Queen's Hospital and Kapiolani Maternity Hospital in Honolulu, Hawaii. Conway earned his MPH from Johns Hopkins and certification from the American Board of Emergency Medicine. He has practised in a variety of locations and is now medical officer of health for the Chinook Health Region in southern Alberta.

Lee has been accepted into a radiology residency at the U of A and has already prepared three papers; his most recent paper, on fetal lung-



Three generations of medical grads—Conway, Lee, and Steele Brewerton at June convocation.

to-liver signal intensity, was published in 2005 in *The Radiological Journal*.

Adding to the spring 2006 festivities in the Brewerton family was the celebration of the 60th wedding anniversary for Steele and Loree Brewerton.

Gerrit T. Maureau, BSc, '65 MSc, was recently appointed president and CEO of the Canadian Petroleum Institute, an independent, not-for-profit training and advisory organization that provides education and advice to its international clientele. Previously Gerrit was president of MaurOil International, a resource management consultancy, and he continues to serve on the board of directors of Petrolifera.

Patricia Wakefield, BSc(HEC), received a Doctor of Business Administration from Boston University's School of Management in May 2005. Her doctoral research was in health care services—"I examined the types and sources of support sought by cancer patients to help them through their cancer experiences." In April 2006 Patricia was inducted into Beta Gamma Sigma, the international honour society for students in business and management. She is an assistant professor in the DeGroote School of Business at McMaster U.

'65 Hugh Lynch-Staunton, BCom, was elected president of the Canadian Cattlemen's Association. He, his wife, **Elizabeth "Betty" Lynch-Staunton (Galeski)**, '65 BSc, and sons operate Antelope Butte Ranch Ltd.

'67 Norma Jean Bowen, BEd, '69 Dip(Ed), '72 MEd, is involved with the Friends of Obadiah Place Society, a historical resource close to Athabasca, Alberta, on the original homestead land of Norma Jean's grandfather Willis Reese Bowen, one of Alberta's first black pioneers. The Friends of Obadiah Place Society is working to develop Obadiah Place as a centre for the preservation and interpretation of Alberta's rich black heritage in the Amber Valley community. The Society is holding a fundraising gala on October 5, 2006. For information on the gala or the Society, contact Norma Jean at (780) 437-2207 or the Friends of Obadiah Place Society at (780) 430-5342 or by mail at Lansdowne P.O. Box 45076, Edmonton, T6H 5Y1.

'68 Hazel Ann Kent (Henderson), BEd, and her husband, **Trevor Kent**, '69 BSc(Eng), live in Barbados, where they own and operate Butterfly Beach Hotel with their

family. They can be reached at www.butterflybeach.com.

Frederick Sweet, PhD, notes that 2006 marks his 35th year as a professor at the School of Medicine at Washington University in St. Louis, Missouri. "Without having been trained in the Department of Chemistry at the U of A, my medical school teaching and research career would not have been possible."

Mary Writer (Christmas), MEd, of Bellingham, Washington, writes, "I'm enjoying grandmotherhood for the first time. This is my 21st year of partnering with my husband, Jerry, in a marine electronics business. I retired from my learning services and the diagnosing and teaching of individuals with learning disabilities several years ago."

'69 Sherry Belcourt-Darby, BMus, has been named president of the Alberta Real Estate Association (AREA). Broker/owner/manager of Coldwell Banker Panda Realty in Edmonton, Sherry has served as president of the Edmonton Real Estate Board and as an AREA director.

Rick Shapka, BCom, writes that since leaving the business world five years ago, he has completed diplomas in art history and photography. He is now pursuing life as a photographer in Vancouver.

C.J. Woods, BCom, has been appointed trustee of the U of Alberta Hospital Foundation Board.

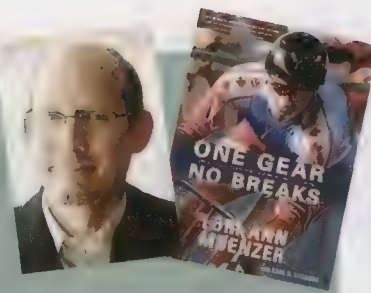
'70 Richard Kellow, MSc, retired to Vancouver Island in November 2005 after working as both the executive director of the Transboundary Waters Unit of Environment Canada and the executive director of the Prairie Provinces Water Board since 1987. Before that Richard worked for the province of Saskatchewan in various positions including chief water planner for the Saskatchewan Water Corporation.

Donna M. Smith (Loughlin), BEd, '74 Dip(Ed), '85 MEd, '93 PhD, recently retired from Alberta Education and is currently working as an educational consultant and doctoral student advisor in the field of education. "The U of A has made a tremendously significant impact on my career pursuits for the

"It's like a dream," **Karl Wilberg**, '79 BA, '83 LLB, says about the recent publication of *One Gear, No Breaks*, a book he co-wrote with Lori-Ann Muenzer about the cyclist's quest for Olympic gold. "I wonder sometimes if it really happened."

Seeing his ideas in print and travelling on a promotional book tour might seem dream-like now, but true to his training as a lawyer, Karl planned, researched, and drafted this book and systematically found a way to make the dream happen. "I had such faith in the story," he says. "The kernel of the idea of a triumph over adversity was a compelling story."

The account chronicles Lori-Ann's childhood, her growing interest in cycling, and her frustration at a lack of support from the national cycling body that considered her an underdog before she defied the odds to win an Olympic gold medal in 2004 at the age of 38.



Karl worked as the Gateway sports editor for one year while at the U of A but then took a 20-year break from writing. Since getting back into writing, he has penned travel stories and fiction set in the courtroom. "It is good training to keep your life running on more than one track," he says. "That's what lawyers are forced to do, after all. That's what I still do—chair the Legal Aid society, coach track cycling, be a father, write a book, and do my day job that pays the bills."

As for his new venture as a published author, he says, "It's probably impossible to support a family by being a writer, but that won't stop me. I love it!"

past 36 years! It offers the highest of standards for post-secondary education in North America."

'72 Helmut Mach, BCom, '77 MBA, has joined the U of A School of Business as the director of the Western Centre for Economic Research and the CN Executive Professor of Canada-U.S. Trade Relations. Helmut's new position follows his retirement from his position as Alberta trade representative in the Alberta Ministry of International and Intergovernmental Relations, where he was responsible for trade policy and dispute management in both international and internal trade agreements.

Dean Wood, MEd, '91 PhD, of Edmonton, is the acting director of the public institutions branch at Alberta Advanced Education. In 2003 he retired from Keyano College as vice-president, academic, after 22 years of service with the College in several different roles. "While this is my first experience working outside of a school or a college, I feel I continue to be an educator working with each of the post-secondary institutions in the province."

'75 Loraine Altenweg, BCom, of Edmonton, received a 2006 Distinguished Service Award for

excellence and commitment to the business community from the Institute of Chartered Accountants. Loraine, a chartered accountant, was recognized for her leadership in the CA profession and her involvement in the community. She is currently the chief financial officer for the Alberta Cancer Foundation.

'77 Greg Schmidt, BA, has been appointed senior director, government relations, at Petro-Canada, located in Calgary.

'78 Gerry Feehan, BSc, '82 LLB, was appointed Queen's Counsel for Alberta in early 2006. The QC designation is an honorary title used to recognize Canadian lawyers for exceptional merit and contribution to the legal profession and the community. Gerry is a senior partner with the Red Deer law firm Duhamel Manning Feehan Warrender Glass, and was president of the Red Deer Golf and Country Club last year. Gerry and his wife, Florence, have four children, one of whom is studying science at the U of A.

Trish McMordie (known as Pat Salt while at the U of A), BEd, just completed her master of education at UBC, specializing in early childhood literacy. Trish teaches elementary school in North Vancouver, B.C.

'79 Owen G. Edmondson, MBA, '73 BSc, has been appointed vice-president, business development finance, based in Calgary, for the ATCO Group.

Elizabeth Johnson, LLB, '73 BA, of Edmonton, has joined the firm Miller Thomson LLP. Elizabeth practises labour and employment law, commercial litigation, and aboriginal law. She was appointed Queen's Counsel in 2004.

Darrell Toma, MSc, '77 BSc(Ag), has been involved with the Canadian and Alberta Chambers of Commerce, most recently as president of the Alberta Chamber. "It was very rewarding and I had the great pleasure to meet, work with, and help many excellent people in my travels." In 2005 Darrell received the Alberta Centennial Medal and had a book published — *Knowledge Guide: Best Management Practices of Leading Farmers* — and, with **John Reddon**, '75 BA, '77 BCom, '80 MSc, wrote a chapter on traits of volunteer leaders for a research book that will be published soon by Nova Science. "My 2006 is busy with consulting work in my firm, and I expect to see more friends again."

'81 Mark Semchuk, BSc(Eng), has been appointed vice-president, manufacturing and construction, for ATCO Structures.

'82 Rick Brouwer, BSc(Eng), was appointed president, ATCO Power Canada Ltd.

'83 Kristine Eldsvik, LLB, of Calgary, has become a partner at Bennett Jones LLP. Kristine practises in the areas of civil litigation and dispute resolution. She was appointed Queen's Counsel in 2004.

Garth Kirkham, BSc, has joined the board of Romios Gold Corp. He is currently on the technical advisory board of North American Tungsten Corporation Ltd. and serves on the executive of the Geologic Association of Canada, Mineral Deposits Division. Garth was previously vice-president, marketing, for Lynx Geosystems Ltd. and has been the principal of Kirkham Geosystems Ltd. for the last 10 years.

Peter Nnabuo, PhD, '81 MA, has been promoted to the rank of academic professor of educational

management at the U of Port Harcourt in Rivers State, Nigeria.

'84 Joseph Concini, BCom, of Edmonton, has been appointed chief financial officer at Focus, a leading provider of engineering, geomatics, and planning services.

Raymond Pryma, BSc, '86 BEd, and his wife, **Maura Pryma (Sharkey)**, '97 BMus, '99 MMus, are happy to announce the birth of their daughter Brynn Marie, in June 2006.

Paul R. Raboud, BSc(Eng), '91 MBA, has been appointed president and COO of Bird Construction Company. Paul has been with Bird Construction for over 22 years in its Edmonton, Vancouver, and Toronto offices in a variety of positions.

Andrew Wilkinson, MD, '79 BMed, '80 BSc(Med), of Vancouver, was recently named a partner at the law firm McCarthy Tétrault and will work in the firm's litigation group. He served as Deputy Minister of the B.C. Ministry of Economic Development from 2003–05 and deputy minister for intergovernmental relations from 2001–03. In 2005 the Association of Canadian Port Authorities awarded him the

Medal of Merit for his leadership role in the B.C. Port Strategy.

'85 Gail Hall, BA, took part in the Alberta at the Smithsonian exhibits in Washington, D.C., in late June to July. "I had to pinch myself," she says, "to realize that I was part of this Alberta showcase." Gail assisted with the research on Alberta's food culture and hosted the Foodways Cooking Stage. Several representatives of the food industry in Alberta demonstrated the food of Alberta at the event and, Gail says, the focus of ingredients was local and regional. "While the cooking attracted crowds, it was the story of what makes our food Albertan that made the food shine—how the climate, geography, and cultural influences have produced the food we have." Gail is owner and operator of Seasoned Solutions' Loft Cooking School and Consulting Company in Edmonton. She can be contacted at gailhall@shaw.ca.

Robert Hemstock, BCom, has been named executive vice-president, regulatory and legal services, for ENMAX. Robert received his law degree from the U of Calgary in 1989.

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SEPTEMBER 18–21

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**UNIVERSITY OF
ALBERTA**



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**Mail to: Alumni Affairs/6th Floor General Services Building/
University of Alberta/Edmonton, Alberta T6G 2H1**

The personal information requested on this form is collected under the authority of Section 33(c) of the Alberta Freedom of Information and Protection of Privacy Act for the purpose of alumni and development programs at the University of Alberta. Questions concerning the collection, or disposal of this information should be directed to: Coordinator, Alumni Special Events, 6th Floor General Services Bldg. University of Alberta Edmonton AB T6G 2H1, ph: 780-492-0866.

Saluting Alumni Excellence

The following alumni are recipients of the University of Alberta Alumni Association's Saluting Alumni Certificate, which celebrates the many diverse accomplishments of alumni from all walks of life.

Peter Kevan, '68 MSc, '70 PhD, of Cambridge, ON, was the recipient of the 2005 Gold Medal from the Entomological Society of Canada for his lifelong contributions to the field.

David Doyle, '79 MSc, '91 BEd, of Sherwood Park, AB, was recognized by the National Association of Biology Teachers with the 2005 Outstanding Biology Teacher Award for Western Canada.

Hugh Robertson, '63 BA, '66 LLB, of Edmonton, received a Distinguished Service Award from the Law Society of Alberta and the Canadian Bar Association of Alberta for his contributions to the legal profession in 2005.

Linda-Rae Carson, '89 BEd, a teacher at Harry Ainlay High School in Edmonton, received the Governor General's Award for Excellence in Teaching Canadian History in November 2005.

Doreen Wheelwright, '76 MHA, of Crookwell, Australia, was named a Member of the Order of Australia for her outstanding service to the physiotherapeutic profession and to her community.

Joy Fraser, '82 BSc(Nu), '89 MNu, '98 PhD, of Edmonton, has been selected to receive a Global Citizen's Award from the United Nations Association in Canada for her contributions to building a more peaceful global community.

Shannon Giles, '92 BA, '96 LLB, of Tucson, AZ, was selected as the Outstanding Pro Bono Attorney of the Month for January 2006 by the Volunteer Lawyers Program in the United States.

Carla Taylor, '99 BEd, was named an Outstanding Cultural Ambassador by the Visiting International Faculty Organization for her work in educating American students about Canadian culture.

Micheline Piquette-Miller, '86 BSc(Pharm), '94 PhD, of Toronto, received the 2006 Leon I. Goldberg Young Investigator Award from the American Society for Clinical Pharmacology and Therapeutics for her accomplishments in the field achieved early in her career.

George Webber, '73 BA, received an Award of Excellence at the 27th Edition of the Society for News Design Awards for his photograph, "Down but not out" shot for *SWERVE* magazine.

...

In May 2006, Alberta Education celebrated this year's Excellence in Teaching Awards in Calgary. These awards, which honour teachers from across the province for their outstanding creativity and innovative teaching in Alberta schools, included the following University of Alberta graduates:

Rod Ayres, '74 BPE, '75 Dip(Ed), from Ashmont Secondary School in Ashmont

Martin Poirier, '03 MEd, from William Aberhart High School in Calgary

Marlene Edwards, '70 BEd, from the Learning Together Program at Chester Ronning School in Camrose

T. Scott Bezubiak, '95 BEd, from Ross Sheppard High School in Edmonton

Dan Cavanagh, '87 BEd, from Anne Fitzgerald Elementary School in Edmonton

Maureen Cimino, '86 BEd, from Jasper Place Composite High School in Edmonton

Michelle Dupuis, '82 BEd, from St. Jerome Elementary School in Edmonton

Jennifer Grassick, '99 BEd, from St. Edmund Elementary/Junior High School in Edmonton

Lorel Trumier, '99 MEd, from St. Vincent School in Edmonton

Jeffrey Johnson, '00 BPE, '02 BEd, from St. Brendan Elementary School in Edmonton

Morag Brenneis, '83 BEd, from Storefront School in Leduc

Howard Molstad, '94 BEd, from Ottewell Junior High School in Edmonton

Deborah Stirrett, '84 BSc, '95 BEd, from Ross Sheppard High School in Edmonton

Willemina Gurtler, '84 BEd, from Manning Elementary School in Manning

Karen Tang, '01 BEd, from Glenmary High School in Peace River.

...

The following University of Alberta graduates were recipients of Alberta Education's 2006 SMARTer Kids Innovative Use of Technology Award:

Doris Meinczinger, '76 BEd, from Busby Elementary School in Busby

Darren Fleischhacker, '92 BEd, from William E. Hay Composite High School in Stettler

Ielah Watt, '76 BEd, from Vermilion Elementary School in Vermilion

...

Several University of Alberta graduates were honoured at the City of Edmonton's 55th Annual Salute to Excellence Hall of Fame Awards held on June 13, 2006.

Shauna C. Miller, '74 BEd, '78 LLB; **Oskar Kruger**, '56 BA, '59 LLB; and **Ken Tamke**, '72 BCom, '76 LLB, were inducted into Edmonton's Sports Hall of Fame.

Gordon Peacock, '49 Dip(Ed), '50 BEd, '90 LLD (Honorary), of Austin, TX; **Tom Radford**, '66 BA; and **Denise Roy**, '76 BA(RecAdmin), '01 MEd, were inducted into Edmonton's Arts and Culture Hall of Fame.

Stanley A. Milner, '51 BSc, '94 LLD (Honorary), was inducted into Edmonton's Community Service Hall of Fame.

For more information on how to nominate a University of Alberta graduate for a Saluting Alumni Certificate, contact the Office of Alumni Affairs at 492-3224 or email alumni@ualberta.ca.

Richard Higa, BCom, has joined the Toronto office of the law firm McCarthy Tétrault as a partner in the Financial Services Group.

Christiaan Odinga, BFA, has been named an associate at Kasian Architecture Interior Design and Planning. He is the senior designer for MacEwan's Robbins Health Learning Centre and was also senior designer for the completed MacEwan Residence.

Robert Pollard, BSc, and **Tracy Thompson**, '91 BEd, were married July 1, 2005, in Edmonton. Robert works at Celanese Canada as a utilities shift supervisor, and Tracy works for Capital Health as a speech language pathologist assistant.

'86 Jonathan G. Bayley, MMus, '88 BEd, has been appointed associate dean of graduate studies, research, and continuing education in the faculty of education at the U of Windsor in Ontario.

'87 Glenn Kubish, BA, was recently named managing editor, news, at CTV Television in Edmonton. He lives in Edmonton with his wife, **Shelagh Kubish (McAnally)**, '85 BA, and two sons.

Kevin Lynch, LLB, has joined the partnership of Bennett Jones LLP in Edmonton. Kevin is a member of the Corporate/Commercial Department and practises in the areas of securities, mergers and acquisitions, real estate and intellectual property law.

'88 Daniel Brodsky, LLB, of Toronto, a criminal lawyer, has been arguing cases in many jurisdictions before the Federal Court and the Supreme Court of Canada since 1989. He is one of four appellate lawyers on the mental disorder amicus curiae roster for the Court of Appeal for Ontario. As well, he has appeared countless times before review boards, inquests and public inquiries. Daniel has been especially active in fighting for the constitutional protection of aboriginal rights and the rights of the mentally ill; defending against the erosion of a woman's right to choose (abortion), and establishing the battered spouse defence in Canada. Daniel is also one of the founding directors of the Association in Defence of the Wrongly Convicted. He devotes a

great deal of time to volunteer activities that advance civil rights and has chaired, organized, and spoken on issues of civil rights at many conferences, schools and community events.

'88 Kevin Brosseau, BA, '01 LLB, recently accepted a position as an associate with the law firm Shearman & Sterling LLP in New York, NY, in the Project Finance Group. "More importantly," he writes, "my wife Krista and I welcomed our first child, Nicholas Georges, into the world on February 22, 2006."

Brenda Hanson, BSc(Eng), has been appointed vice-president, engineering and procurement services, for ATCO Structures.

Tine Steen-Dekker, BEd, writes that she is "moving back to Alberta and the City of Champions! So glad; can't stand the dark green environment all year long; it's depressing without the snow." Tine had been living in Ladysmith, B.C.

'89 Alan Rozak, BSc(Eng), has been appointed vice-president, gas gathering and processing, at ATCO Midstream.

'90 Michele Marples, BEd, '95 Dip(Ed), is a teacher with Edmonton Public Schools. Currently on maternity leave, Michele will return to teaching in September 2006 and will be in an early education classroom helping children ages two to five with a range of disabilities. "It is a rewarding job and I love the kids and the wonderful staff I work with." Her husband, **Garret Meijer**, '90 BSc(Eng), '95 MSc, is completing his PhD in mechanical engineering at the U of A and works for Noetic Engineering as a research engineer.

'91 Nancy Partlow, MBA, '89 BA, and her husband, James Levy, of Calgary, wish to announce the birth of twins Jack and Madison in January 2006. "Brother Andy (age 9) and sister Taylor (age 2) are also thrilled."

'92 Neil Bosch, BCom, along with his Bosch Campbell Investment Management Group, has joined Richardson Partners Financial Limited in Edmonton. Neil is first

vice-president, portfolio manager, for Richardson Partners Financial.

Randy Hughes, BSc(Eng), has been appointed vice-president, sales and project management, for ATCO Structures.

Gordon Nettleton, LLB, '87 BCom, of Calgary, has been appointed a partner at Osler, Hoskin & Harcourt LLP.

Melody Ulmer, BEd, of Barrhead, AB, writes that she is enjoying every minute of her new "appointment" as a mother of three children. "I continue to travel to soccer, skating, the park, etc., and I think I'll soon be promoted to executive president of the never-ending laundry department."

'94 Dan Sander, LLB, of Calgary, capitalized on his voracious reading habit, keen memory and speed on the buzzer to become a three-day champion and win nearly \$70,000 on the television game show *Jeopardy!* Dan was on *Jeopardy!* for four episodes that aired in June but were taped in California over two days in March, and was eliminated not because he got an answer wrong but because a fellow contestant bid more than he did in Final Jeopardy and ended up winning by a small margin. "I had a great time," said Dan, who works as a trust officer.

'95 Kevin Harris, BSc(Eng), has been appointed technology leader at Sierra Systems in Edmonton.

'96 Dale Mah, BSc, recently joined Tahera Diamond Corporation and is busy exploring for diamonds in the Canadian Arctic. "We also welcomed the addition of our second child, Vivian, a little sister for big brother Jin. This summer we will be celebrating our 10th wedding anniversary!"

Sophia Y. Wong, MA, '92 BA, is delighted to announce that she has completed her PhD in philosophy at Columbia U and loves living in New York. She teaches philosophy at Long Island University on the Brooklyn campus and is engaged to be married in 2007.

'97 Susan Nahirniak, MD, '92 BSc(MedLab), is coordinating a 10-year class reunion for the medical class of 1997. The reunion will

be held April 13-15, 2007, at the Rimrock Hotel in Banff. "The rest of the details are pretty sketchy at this time but preliminary plans are for a casual reception on the Friday night and a formal banquet on Saturday. Not sure whether to try to coordinate more activities or leave the rest of the time open. ... Any suggestions and comments are welcome." Susan can be reached at snahirni@ualberta.ca or by phone at (780) 955-7060.

Jon Truswell, LLB, '93 BA, of Calgary, has been appointed a partner at Bennett Jones LLP.

'98 Marcus Archer, LLB, has been appointed a partner at Macleod Dixon Barristers & Solicitors in Calgary. He will work in securities and project development and finance.

David Craddock, LLB, has been appointed a partner at Macleod Dixon Barristers & Solicitors in Calgary. He will work in corporate/commercial, project development and finance, and technology enterprise.

Geoffrey Crowe, LLB, has joined the partnership of Weir Bowen LLP. Geoff practises almost exclusively in the area of civil litigation, with an emphasis on insurance law.

Colin Feasby, LLB, of Calgary, has been appointed a partner at Osler, Hoskin & Harcourt LLP.

Ali Rizvi, BCom, '94 BSc, of Cupertino, California, accepted a position as director of accounting at PerkinElmer Optoelectronics in Silicon Valley in California. Prior to this, Ali, a chartered accountant, was a senior manager with Ernst & Young LLP. "The job climate in Silicon Valley for business professionals continues to be extremely

robust, particularly for finance and accounting professionals. This is a great time for qualified Canadians to come to California and find out what it has to offer in terms of enormous career prospects and a great lifestyle." Ali's wife, **Melynnie Rizvi (Horn)**, '95 BCom, '99 LLB, practises employment law with a San Francisco law firm.

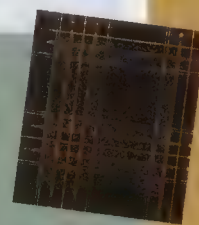
'99 Sandy Annis (Abbott), BSc (HumanEcol), has been living in Lethbridge for 10 years and has worked for Alberta Justice, Child and Family Services, the Red Cross, the U of Lethbridge Campus Women's Centre, Lethbridge Community College, and is currently the regional coordinator for the AMA School Safety Patrol program. She writes, "I am completing a B.A. from the U of Lethbridge and will graduate in Fall 2006. I will continue into the education faculty and plan to be a home economics, art, and special needs teacher one day and continue to a master's degree with research in brain and behaviour as related to learning. I am married with three teenagers who love to snowboard in the Rockies."

Camille Audain, LLB, '94 BCom, writes, "I celebrated my five-year anniversary as a member of the Alberta Bar and joined Justice Canada in March 2001."

Piotr Bobkowski, BA, earned a Master of Arts in mass communication from the U of Houston and in August 2006 will begin doctoral studies in the School of Journalism and Mass Communication at the U of North Carolina-Chapel Hill. "For the past seven years I have taught and advised nationally recognized student publications at St. Thomas High School in Houston, Texas."

Mad about plaid — **Violet Holmes**, '90 BFA, of Burnaby, B.C., is the creative force behind the artwork of the RCMP Tartan, designed to celebrate the 125th anniversary of the RCMP. Officially registered with the Scottish Tartans Society in Scotland, the tartan was presented to the Force by Princess Anne in June 1998. Violet is also an avid runner — "I started running in 1998,

and I've never looked back." She runs in local charity races — for a total of 72 races and 31 medals — and for the past five years has participated in the Honolulu Marathon with Joints-in-Motion, where she has helped raise more than \$21,000 for arthritis research.



'01 Andrew Ross, BCom, has been appointed a partner at Conroy Ross Partners, one of western Canada's leading executive search and management consulting companies.

Ronee Tam, BEd, '98 BA, of Ottawa, is currently a research analyst for the federal government. After graduating from the U of A, Ronee taught high school and junior high for two years in Alberta. She was with the army, posted to CFB Petawawa, for two years.

'02 Michelle Hofstrand, BA, received her master's degree in communication sciences and disorders from the U of North Dakota in 2006 and works as a speech-language pathologist in Fort St. John, B.C.

Steven Marcellus, LLB, and **Lynn Marcellus (Weisenburger)**, '99 BCom, announce the birth of their first child, Abigail Beth Marcellus, in May 2006.

'03 Jasmine Chee, BCom, moved to Canmore, AB, where she is currently articling at Collins Barrow

Courtney Thomas, '03 BA, '05 MA, begins PhD studies in renaissance studies/history at Yale University in September 2006. Yale is giving Courtney a full scholarship plus a total of \$67,000 of funding over five years; in addition, Courtney received a grant from the Social Sciences and Humanities Research Council for \$20,000 a year for four years. The young scholar first became interested in English history in ele-



mentary school — a fascination with the compelling life of Queen Elizabeth I and with the six wives of Henry VIII was a start — and carried that interest through her undergraduate and master's degrees at the U of A. At Yale, she says, "My focus will be on British history balanced with Italian renaissance history. I'm receiving instruction in Italian right now, because I'm hoping to work with original Italian sources."

Bow Valley. She spent the last two summers in Saskatoon, SK, completing a Master of Professional Accounting at the U of Saskatchewan. The highlight of 2005 was her successful attempt at the Uniform Evaluation, an especially demanding aspect of the process of becoming a chartered accountant.

Daniel Coles, BEd, and his wife, **Meghan Kallal**, '02 BEd, have both recently accepted new teaching positions. Meghan will be teaching French and English at Jean Vanier School in Sherwood Park, and Dan will be teaching at Holy Redeemer School in Ardrossan. Dan and Meghan have

two daughters — Bethany turned two in June, and Kaitlyn turned one in July.

Renn Moodley, LLB, '00 BA, has joined the firm of Prowse Chowne LLP as an associate.

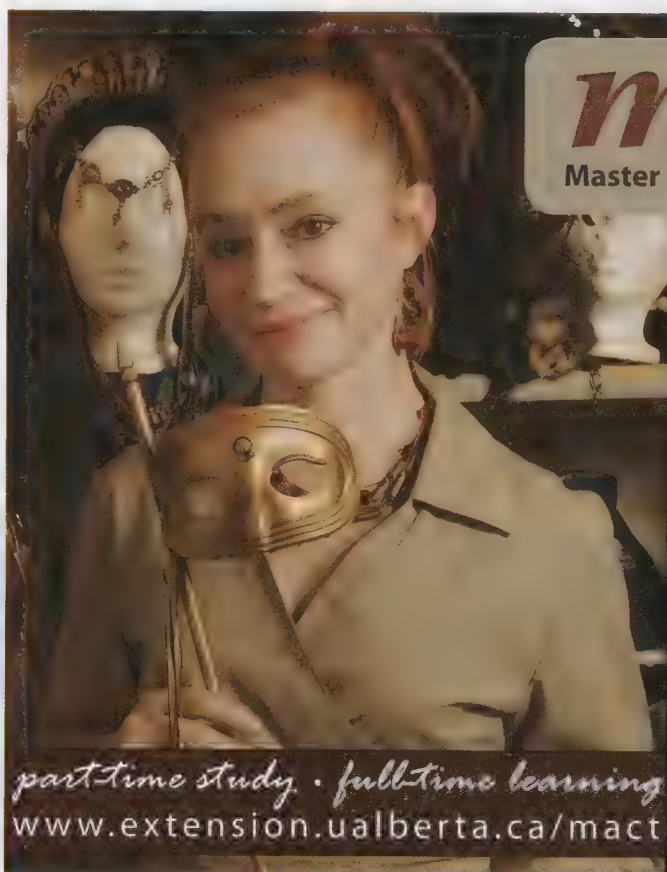
'04 Valerie David Meier, LLB, of Edmonton, joined Emery Jamieson LLP as an associate.

Colleen Heffernan, BEd, of Edmonton, won the R. Ross Annett Award from the Book Publishers Association of Alberta for her first novel for young adults —

A Kind of Courage — published by Orca Books last year. *A Kind of Courage*, a story of conscientious objectors during World War I, has also been selected for the New York Public Library's "Books for the Teen Age" list.

Sharon Roberts, LLB, has joined the firm of Parlee McLaws LLP to work in the areas of commercial litigation, banking litigation, and aboriginal law.





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In Memoriam

The Alumni Association notes with sorrow the passing of the following graduates:

'30 **Hugh Whitney Morrison**, BA, of Aurora, ON, in May 2006

'31 **Elizabeth Susanna Jean Laithwaite (Harvie)**, BA, '34 Dip(Ed), of West Vancouver, BC, in May 2006

'33 **Margaret Agnes Poole (Thomson)**, BCom, of Kingston, ON, in June 2006

'35 **Doris Elizabeth Thompson**, BCom, of Edmonton, AB, in May 2006

'37 **Doreen Clapperton**, BA, of Montreal, QC, in March 2006

'38 **Evelyn M. McGibbon**, BSc(HomEc), of Edmonton, AB, in May 2006

Raymond Nash, MD, of Somerset Bridge, Bermuda, in April 2006

Roy Thomas, BSc, of Albuquerque, New Mexico, in March 2005

'40 **Charles H. "Bud" Medhurst**, BSc(Eng), of Vancouver, BC, in April 2006

'41 **Ruth Elizabeth McClure**, Dip(Nu), '42 BSc(Nu), '84 LLD (Honorary), professor emerita, of Victoria, BC, in May 2006

John Howard Dixon, BSc, of Calgary, AB, in May 2006

H. Margaret Jansen (Johnson), Dip(Nu), of North Vancouver, BC, in March 2006

'42 **Brigham Young Card**, BSc, '47 BEd, professor emeritus, of Lethbridge, AB, in June 2006

'44 **Peter Martin Owen**, BA, '48 LLB, of Edmonton, AB, in May 2006

'47 **Graeme Rusk Howarth**, BEd, of Calgary, AB, in April 2006

'48 **William David Connolly**, BSc, of Calgary, AB, in April 2006

'49 **Benjamin Norton Peterson**, BSc(Eng), of Burlington, ON, in April 2006

Rodney Wilson Edgcombe, BSc(Eng), of Calgary, AB, in May 2006

Herbert George Little, BSc(Eng), of Salmon Arm, BC, in May 2006

'50 **Norman Carriere**, BSc, '54 MD, of Nanaimo, BC, in May 2006

Terence James Nugent, BA, '51 LLB, of Edmonton, AB, in April 2006

Victor Thor Janssen, BSc(Ag), of Edmonton, AB, in May 2006

Mary Ada Smith, Dip(Nu), '51 Dip(Nu), of Surrey, BC, in May 2006

'51 **Paul Emile Jullion**, BCom, of Barrhead, AB, in April 2006

Bernice Paul, Dip(Nu), of Elko, BC, in January 2006

'53 **Roy Paul**, BSc(Ag), of Elko, BC, in January 2006

'54 **Peter McNichol**, BCom, of Toronto, ON, in February 2006

'56 **John Sherman**, BA, of West Vancouver, BC, in May 2006

Roman Piwowar, Dip(Ed), '58 Dip(Ed), '60 BEd, of Canmore, AB, in February 2006

'57 **Eugenia Arnason**, BEd, of Calgary, AB, in April 2006

'58 **Leslie C. Cole**, BSc(Eng), of Calgary, AB, in May 2006

John Aberle, BEd, of Lethbridge, AB, in May 2006

'59 **Warren E. Williams**, BA, '61 MA, of North Hatley, QC, in April 2006

'61 **Frank Geza Szojka**, BSc(Eng), of Edmonton, AB, in May 2006

'62 **Lila Fahlman**, BEd, '71 MEd, '76 Dip(Ed), of Edmonton, AB, in May 2006

Colin Laing, BSc(Eng), of Calgary, AB, in March 2006

'63 **Mark Rosenbloom**, MSc, '67 MD, of Ottawa, ON, in March 2006

Dorothy Isabelle Caspell, BEd, '70 Dip(Ed), of Calgary, AB, in May 2006

'65 **Rosemary Babowal**, Dip(Nu), of Edmonton, AB, in May 2006

Robert Stanley Hamilton, DDS, of Barrhead, AB, in March 2006

Nancy Shemeluck-Radomsky, BEd, of Oakville, ON, in April 2006

'66 **Elaine Mary Sparks**, BSc(Nu), of New Westminster, BC, in June 2006

Richard Anthony Aykroyd, BCom, of Kelowna, BC, in June 2006

'68 **Daria Wallsten (Iwanusiw)**, Dip(Nu), '69 BSc, of Slave Lake, AB, in April 2006

Beatrice Russell, BEd, of Edmonton, AB, in May 2006

'69 **Herbert McMullen**, BEd, of Olds, AB, in May 2006

'70 **Karl Gurevitch**, BCom, '73 LLB, of Calgary, AB, in June 2006

'71 **David Phelps**, BSc, '76 Dip(Ed), of Edmonton, AB, in May 2006

'73 **Roger Wright**, BCom, of North Vancouver, BC, in July, 2005

'74 **Donald John Taylor**, BDiv, '75 LLB, of Edmonton, AB, in May 2006

Richard Grove, BCom, of Ottawa, ON, in April 2006

'75 **Daren Dean Melan**, BEd, of Pigeon Lake, AB, in May 2006

'76 **Florence Lockwood**, BEd, of Medicine Hat, AB, in March 2006

'80 **Mary Cronin**, MEd, '82 PhD, of Regina, SK, in March 2006

'87 **Russell Rowland Savage**, LLB, of Calgary, AB, in June 2006

'98 **Brian Paul Dubois**, BCom, of St Albert, AB, in November, 2005

Alumni interested in submitting remembrances about U of A graduates can send a text file to alumni@ualberta.ca. Tributes are posted on the 'Memory Lane' webpage at www.ualberta.ca/alumni/memorylane

The Man Who Designed Canada's Flag

As the University's centenary approaches, we take a look at alumni past who stand out in our 100-year tradition of excellence

Had he lived another few years **George Stanley**, '29 BA, '71 LLD (Honorary), the man who designed Canada's flag, would probably be getting quite a chuckle out of the consternation in Calgary over preserving his boyhood home in time for the anniversary of his 100th birthday in July 2007.

Although Stanley, who died at the age of 96 in 2002, always looked back fondly on his western roots, he spent most of his time in the east, and his retirement years found him living with his wife of over 50 years, Ruth, in Sackville, New Brunswick

(where he served as lieutenant governor from 1982 to 1987). But as Ruth recently told the *Calgary Herald*, "I don't think the city and the mountains ever got out of his blood. He surely loved Calgary."

Stanley, one of Canada's most celebrated historians, found his true calling at the University of Alberta after leaving Calgary to come here when he was 18. As he told *New Trail* magazine in 1996, "I really intended to be a lawyer." But fate intervened in the form of U of A history professor A.L. Burt, whose enthusiasm for the subject was infectious and who encouraged Stanley to take up the study in earnest.

When asked in 1996 how it was that he moved far from the foothills that were so dear to his heart, he said, "It's very simple. When I finished at Oxford

[where he went on a Rhodes Scholarship when he was 22] I wrote to every university in Canada asking about a job — this was in the middle of the '30s, remember. The only place that had an opening was a small university in New Brunswick."



That University was Mount Allison where Stanley taught history. In 1949 he moved on to the Royal Military College in Kingston where he stayed for 20 years before returning to Sackville to become director of Mount Allison's new Canadian Studies program, the first such undertaking in Canada.

Eventually he would author 15 books and have numerous honorary degrees and designations bestowed upon him... and, oh yes, let's not forget the Canadian flag.

In the early '60s a parliamentary committee was struck to design Canada's new flag. Stanley was asked for his advice, and told them "it had to be red and white, it had to be distinct and it had to be something children could draw." He also provided a design sketch.

Following some tortuous parliamentary carryings-on a new Canadian flag based on Stanley's design was adopted and first flown on February 15, 1965. There was, however, considerable opposition to the new flag and Stanley found himself vilified by some for his part in replacing the Union Jack and the Red Ensign. To the criticism, Stanley responded calmly: "I told them 'just give it 30 years.'"

Sometimes it helps to have a historian's perspective.

—Kim Green and Rick Pilger



The Wauneita Way

This picture shows an unidentified* group of Wauneitas gathered in front of a fireplace wrapped in their ceremonial blankets. In 1909, the first female University undergraduates bonded together under the name of Wauneita (a word purported to mean “kindhearted” in Cree).

In the fall, each freshette would be paraded before a fire where the chief and braves of the Wauneita Tribe would present her with a feather (a symbol of lightheartedness) and a bundle of sticks while wrapping her in a blanket to indicate her inclusion into the tribe and the helping hand that she could always count on being extended by her sisters. After dropping her sticks into the fire, the new Wauneita would swear allegiance to the University and recite the tribe motto, “Payuk uche kukeyow kukeyozy uche payuk” (each for all and all for each).

When the first Students’ Union building (now University Hall) was constructed in 1951, a gathering space with a large fireplace was set aside for the Wauneitas. But in the ’60s this space was lost to administrative offices and along with their home the Wauneita tradition also began to fade away as thousands of new female undergraduates would parade before a fire without comprehending its ceremonial significance or realizing they were being inducted into the Wauneita tradition. By 1972, due to changing times—including, perhaps, a more politically aware perspective concerning the appropriation of another’s culture—the Wauneitas were no longer.

** If anyone can identify the women in the photo, please let us know.*



The University of Alberta Press



I Was There

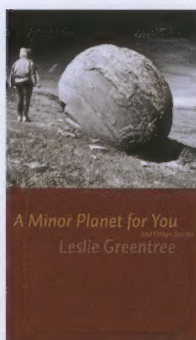
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ELLEN SCHOECK

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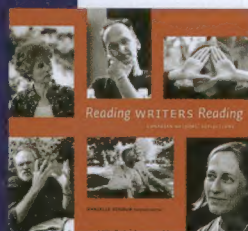


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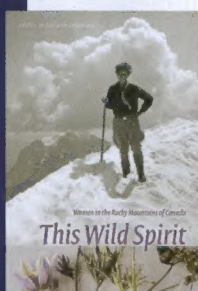
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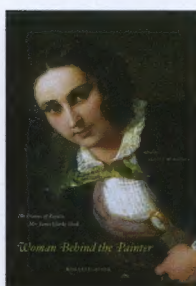
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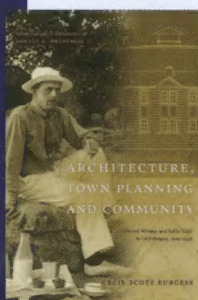
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